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(54) Title: SINGLE NUCLEOTIDE POLYMORPHISMS AS PREDICTIVE DIAGNOSTICS FOR ADVERSE DRUG REACTIONS (ADR) AND DRUG EFFICACY

(57) Abstract: The invention provides diagnostic methods and kits including oligo and/or polynucleotides or derivatives, including as well antibodies determining whether a human subject is at risk of getting adverse drug reaction after statin therapy or whether the human subject is a high or low responder or a good a or bad metabolizer of statins. The invention provides further diagnostic methods and kits including antibodies determining whether a human subject is at risk for a cardiovascular disease. Still further the invention provides polymorphic sequences and other genes.



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Single Nucleotide Polymorphisms as Predictive Diagnostics for Adverse Drug Reactions (ADR) and Drug Efficacy

Technical Field

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This invention relates to genetic polymorphisms useful for assessing the response to lipid lowering drug therapy and adverse drug reactions of those medicaments, In addition it relates to genetic polymorphisms useful for assessing cardiovascular risks in humans, including, but not limited to, atherosclerosis, ischemia/reperfusion, hypertension, restenosis, arterial inflammation, myocardial infarction, and stroke. Specifically, the present invention identifies and describes gene variations which are individually present in humans with cardiovascular disease states, relative to humans with normal, or non-cardiovascular disease states, and/or in response to medications relevant to cardiovascular disease. Further, the present invention provides methods for the identification and therapeutic use of compounds as treatments of cardiovascular disease or as prophylactic therapy for cardiovascular diseases. Moreover, the present invention provides methods for the diagnostic monitoring of patients undergoing clinical evaluation for the treatment of cardiovascular disease, and for monitoring the efficacy of compounds in clinical trials. Still further, the present invention provides methods to use gene variations to predict personal medication schemes omitting adverse drug reactions and allowing an adjustment of the drug dose to achieve maximum benefit for the patient. Additionally, the present invention describes methods for the diagnostic evaluation and prognosis of various cardiovascular diseases, and for the identification of subjects exhibiting a predisposition to such conditions.

Background of the Invention

Cardiovascular disease is a major health risk throughout the industrialized world.

Cardiovascular diseases include but are not limited by the following disorders of the heart and the vascular system: congestive heart failure, myocardial infarction,

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atherosclerosis, ischemic diseases of the heart, coronary heart disease, all kinds of atrial and ventricular arrhythmias, hypertensive vascular diseases and peripheral vascular diseases.

Heart failure is defined as a pathophysiologic state in which an abnormality of cardiac function is responsible for the failure of the heart to pump blood at a rate commensurate with the requirement of the metabolizing tissue. It includes all forms of pumping failure such as high-output and low-output, acute and chronic, right-sided or left-sided, systolic or diastolic, independent of the underlying cause.

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Myocardial infarction (MI) is generally caused by an abrupt decrease in coronary blood flow that follows a thrombotic occlusion of a coronary artery previously narrowed by arteriosclerosis. MI prophylaxis (primary and secondary prevention) is included as well as the acute treatment of MI and the prevention of complications.

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Ischemic diseases are conditions in which the coronary flow is restricted resulting in an perfusion which is inadequate to meet the myocardial requirement for oxygen. This group of diseases include stable angina, unstable angina and asymptomatic ischemia.

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Arrhythmias include all forms of atrial and ventricular tachyarrhythmias (atrial tachycardia, atrial flutter, atrial fibrillation, atrio-ventricular reentrant tachycardia, preexitation syndrome, ventricular tachycardia, ventricular flutter, ventricular fibrillation) as well as bradycardic forms of arrhythmias.

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Hypertensive vascular diseases include primary as well as all kinds of secondary arterial hypertension (renal, endocrine, neurogenic, others).

Peripheral vascular diseases are defined as vascular diseases in which arterial and/or venous flow is reduced resulting in an imbalance between blood supply and tissue oxygen demand. It includes chronic peripheral arterial occlusive disease (PAOD),

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acute arterial thrombosis and embolism, inflammatory vascular disorders, Raynaud's phenomenon and venous disorders.

Atherosclerosis, the most prevalent of vascular diseases, is the principal cause of heart attack, stroke, and gangrene of the extremities, and thereby the principal cause of death. Atherosclerosis is a complex disease involving many cell types and molecular factors (for a detailed review, see Ross, 1993, Nature 362: 801-809 and Lusis, A. J., Nature 407, 233-241 (2000)). The process, in normal circumstances a protective response to insults to the endothelium and smooth muscle cells (SMCs) of the wall of the artery, consists of the formation of fibrofatty and fibrous lesions or plaques, preceded and accompanied by inflammation. The advanced lesions of atherosclerosis may occlude the artery concerned, and result from an excessive inflammatory-fibroproliferative response to numerous different forms of insult. For example, shear stresses are thought to be responsible for the frequent occurrence of atherosclerotic plaques in regions of the circulatory system where turbulent blood flow occurs, such as branch points and irregular structures.

The first observable event in the formation of an atherosclerotic plaque occurs when blood-borne monocytes adhere to the vascular endothelial layer and transmigrate through to the sub-endothelial space. Adjacent endothelial cells at the same time produce oxidized low density lipoprotein (LDL). These oxidized LDLs are then taken up in large amounts by the monocytes through scavenger receptors expressed on their surfaces. In contrast to the regulated pathway by which native LDL (nLDL) is taken up by nLDL specific receptors, the scavenger pathway of uptake is not regulated by the monocytes.

These lipid-filled monocytes are called foam cells, and are the major constituent of the fatty streak. Interactions between foam cells and the endothelial and SMCs which surround them lead to a state of chronic local inflammation which can eventually lead to smooth muscle cell proliferation and migration, and the formation of a fibrous

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plaque. Such plaques occlude the blood vessel concerned and thus restrict the flow of blood, resulting in ischemia.

Ischemia is a condition characterized by a lack of oxygen supply in tissues of organs due to inadequate perfusion. Such inadequate perfusion can have number of natural causes, including atherosclerotic or restenotic lesions, anemia, or stroke, to name a few. Many medical interventions, such as the interruption of the flow of blood during bypass surgery, for example, also lead to ischemia. In addition to sometimes being caused by diseased cardiovascular tissue, ischemia may sometimes affect cardiovascular tissue, such as in ischemic heart disease. Ischemia may occur in any organ, however, that is suffering a lack of oxygen supply.

The most common cause of ischemia in the heart is atherosclerotic disease of epicardial coronary arteries. By reducing the lumen of these vessels, atherosclerosis causes an absolute decrease in myocardial perfusion in the basal state or limits appropriate increases in perfusion when the demand for flow is augmented. Coronary blood flow can also be limited by arterial thrombi, spasm, and, rarely, coronary Temboli, as well as by ostial narrowing due to luetic aortitis. Congenital abnormalities, such as anomalous origin of the left anterior descending coronary artery from the pulmonary artery, may cause myocardial ischemia and infarction in infancy, but this cause is very rare in adults. Myocardial ischemia can also occur if myocardial oxygen demands are abnormally increased, as in severe ventricular hypertrophy due to hypertension or aortic stenosis. The latter can be present with angina that is indistinguishable from that caused by coronary atherosclerosis. A reduction in the oxygen-carrying capacity of the blood, as in extremely severe anemia or in the presence of carboxy-hemoglobin, is a rare cause of myocardial ischemia. Not infrequently, two or more causes of ischemia will coexist, such as an increase in oxygen demand due to left ventricular hypertrophy and a reduction in oxygen supply secondary to coronary atherosclerosis.

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The foregoing studies are aimed at defining the role of particular gene variations presumed to be involved in the misleading of normal cellular function leading to cardiovascular disease. However, such approaches cannot identify the full panoply of gene variations that are involved in the disease process.

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At present, the only available treatments for cardiovascular disorders are pharmaceutical based medications that are not targeted to an individual's actual defect; examples include angiotensin converting enzyme (ACE) inhibitors and diuretics for hypertension, insulin supplementation for non-insulin dependent diabetes mellitus (NIDDM), cholesterol reduction strategies for dyslipidaemia, anticoagulants, \(\beta \) blockers for cardiovascular disorders and weight reduction strategies for obesity. If targeted treatment strategies were available it might be possible to predict the response to a particular regime of therapy and could markedly increase the effectiveness of such treatment. Although targeted therapy requires accurate diagnostic tests for disease susceptibility, once these tests are developed the opportunity to utilize targeted therapy will become widespread. Such diagnostic tests could initially serve to identify individuals at most risk of hypertension and could allow them to make changes in lifestyle or diet that would serve as preventative measures. The benefits associated by coupling the diagnostic tests with a system of targeted therapy could include the reduction in dosage of administered drugs and thus the amount of unpleasant side effects suffered by an individual. In more severe cases a diagnostic test may suggest that earlier surgical intervention would be useful in preventing a further deterioration in condition.

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It is an object of the invention to provide genetic diagnosis of predisposition or susceptibility for cardiovascular diseases. Another related object is to provide treatment to reduce or prevent or delay the onset of disease in those predisposed or susceptible to this disease. A further object is to provide means for carrying out this diagnosis.

Accordingly, a first aspect of the invention provides a method of diagnosis of disease in an individual, said method comprising determining one, various or all genotypes in said individual of the genes listed in the Examples.

In another aspect, the invention provides a method of identifying an individual predisposed or susceptible to a disease, said method comprising determining one, various or all genotypes in said individual of the genes listed in the Examples.

The invention is of advantage in that it enables diagnosis of a disease or of certain disease states via genetic analysis which can yield useable results before onset of disease symptoms, or before onset of severe symptoms. The invention is further of advantage in that it enables diagnosis of predisposition or susceptibility to a disease or of certain disease states via genetic analysis.

The invention may also be of use in confirming or corroborating the results of other diagnostic methods. The diagnosis of the invention may thus suitably be used either as an isolated technique or in combination with other methods and apparatus for diagnosis, in which latter case the invention provides a further test on which a diagnosis may be assessed.

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The present invention stems from using allelic association as a method for genotyping individuals; allowing the investigation of the molecular genetic basis for cardiovascular diseases. In a specific embodiment the invention tests for the polymorphisms in the sequences of the listed genes in the Examples. The invention demonstrates a link between this polymorphisms and predispositions to cardiovascular diseases by showing that allele frequencies significantly differ when individuals with "bad" serum lipids are compared to individuals with "good" serum levels. The meaning of "good and bad" serum lipid levels is defined in Table 1a.

Certain disease states would benefit, that is to say the suffering of the patient may be reduced or prevented or delayed, by administration of treatment or therapy in

advance of disease appearance; this can be more reliably carried out if advance diagnosis of predisposition or susceptibility to disease can be diagnosed.

Pharmacogenomics and adverse drug reactions

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Adverse drug reactions (ADRs) remain a major clinical problem. A recent metaanalysis suggested that in the USA in 1994, ADRs were responsible for 100 000 deaths, making them between the fourth and sixth commonest cause of death (Lazarou 1998, J. Am. Med. Assoc. 279:1200). Although these figures have been heavily criticized, they emphasize the importance of ADRs. Indeed, there is good evidence that ADRs account for 5% of all hospital admissions and increase the length of stay in hospital by two days at an increased cost of ~\$2500 per patient. ADRs are also one of the commonest causes of drug withdrawal, which has enormous financial implications for the pharmaceutical industry. ADRs, perhaps fortunately, only affect a minority of those taking a particular drug. Although factors that determine susceptibility are unclear in most cases, there is increasing interest in the role of genetic factors. Indeed, the role of inheritable variations in predisposing patients to ADRs has been appreciated since the late 1950s and early 1960s through the discovery of deficiencies in enzymes such as pseudocholinesterase (butyrylcholinesterase) and glucose-6-phosphate dehydrogenase (G6PD). More recently, with the first draft of the human genome just completed, there has been renewed interest in this area with the introduction of terms such as pharmacogenomics and toxicogenomics. Essentially, the aim of pharmacogenomics and pharmacogenetics is to produce personalized medicines, whereby administration of the drug class and dosage is tailored to an individual genotype. Thus, the term pharmacogenetics embraces both efficacy and toxicity.

The 3-hydroxy-3-methylglutaryl coenzyme A (HMG-CoA) reductase inhibitors ("statins") specifically inhibit the enzyme HMG-CoA reductase which catalyzes the rate limiting step in cholesterol biosynthesis. These drugs are effective in reducing the primary and secondary risk of coronary artery disease and coronary events, such

as heart attack, in middle-aged and older men and women, in both diabetic and nondiabetic patients, and are often prescribed for patients with hyperlipidemia. Statins used in secondary prevention of coronary artery or heart disease significantly reduce the risk of stroke, total mortality and morbidity and attacks of myocardial ischemia; the use of statins is also associated with improvements in endothelial and fibrinolytic functions and decreased platelet thrombus formation.

The tolerability of these drugs during long term administration is an important issue. Adverse reactions involving skeletal muscle are not uncommon, and sometimes serious adverse reactions involving skeletal muscle such as myopathy and rhabdomyolysis may occur, requiring discontinuation of the drug. In addition an increase in serum creatine kinase (CK) may be a sign of a statin related adverse event. The extend of such adverse events can be read from the extend of the CK level increase (as compared to the upper limit of normal [ULN]).

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Occasionally arthralgia, alone or in association with myalgia, has been reported. Also an elevation of liver transaminases has been associated with statin administration.

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It was shown that the drug response to statin therapy is a class effects, i.e. all known and presumably also all so far undiscovered statins share the same benefical and harmful effects (Ucar, M. et al., Drug Safety 2000, 22:441). It follows that the discovery of diagnostic tools to predict the drug response to a single statin will also be of aid to guide therapy with other statins.

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The present invention provides diagnostic tests to predict the patient's individual response to statin therapy. Such responses include, but are not limited by the extent of adverse drug reactions, the level of lipid lowering or the drug's influence on disease states. Those diagnostic tests may predict the response to statin therapy either alone or in combination with another diagnostic test or another drug regimen.

Detailed Description of the Invention

The present invention is based at least in part on the discovery that a specific allele of a polymorphic region of a so called "candidate gene" (as defined below) is associated with CVD or drug response.

For the present invention the following candidate genes were analyzed:

- Genes found to be expressed in cardiac tissue (Hwang et al., Circulation 1997,. 96:4146-4203).
 - Genes from the following metabolic pathways and their regulatory elements:

Lipid metabolism

Numerous studies have shown a connection between serum lipid levels and cardiovascular diseases. Candidate genes falling into this group include but are not limited by genes of the cholesterol pathway, apolipoproteins and their modifiying factors.

20 Coagulation

Ischemic diseases of the heart and in particular myocardial infarction may be caused by a thrombotic occlusion. Genes falling into this group include all genes of the coagulation cascade and their regulatory elements.

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Inflammation

Complications of atherosclerosis are the most common causes of death in Western societies. In broad outline atherosclerosis can be considered to be a form of chronic inflammation resulting from interaction modified lipoproteins, monocyte-derived macrophages, T cells, and the normal cellular elements of the arterial wall. This

inflammatory process can ultimately lead to the development of complex lesions, or plaques, that protrude into the arterial lumen. Finally plaque rupture and thrombosis result in the acute clinical complications of myocardial infarction and stroke (Glass et al., Cell 2001, 104:503-516).

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It follows that all genes related to inflammatory processes, including but not limited by cytokines, cytokine receptors and cell adhesion molecules are candidate genes for CVD.

10 Glucose and energy metabolism

As glucose and energy metabolism is interdependent with the metabolism of lipids (see above) also the former pathways contain candidate genes. Energy metabolism in general also relates to obesity, which is an independent risk factor for CVD (Melanson et al., Cardiol Rev 2001 9:202-207). In addition high blood glucose levels are associated with many microvascular and macrovascular complications and may therefore affect an individuals disposition to CVD (Duckworth, Curr Atheroscler Rep 2001, 3:383-391).

20 Hypertension

As hypertension is an independent risk factor for CVD, also genes that are involved in the regulation of systolic and diastolic blood pressure affect an individuals risk for CVD (Safar, Curr Opin Cardiol 2000, 15:258-263). Interestingly hypertension and diabetes (see above) appear to be interdependent, since hypertension is approximately twice as frequent in patients with diabetes compared with patients without the disease. Conversely, recent data suggest that hypertensive persons are more predisposed to the development of diabetes than are normotensive persons (Sowers et al., Hypertension 2001, 37:1053-1059).

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Genes related to drug response

Those genes include metabolic pathways involved in the absorption, distribution, metabolism, excretion and toxicity (ADMET) of drugs. Prominent members of this group are the cytochrome P450 proteins which catalyze many reactions involved in drug metabolism.

Unclassified genes

As stated above, the mechanisms that lead to cardiovascular diseases or define the patient's individual response to drugs are not completely elucidated. Hence also candidate genes were analysed, which could not be assigned to the above listed categories. The present invention is based at least in part on the discovery of polymorphisms, that lie in genomic regions of unknown physiological function.

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Results

After conducting an association study, we surprisingly found polymorphic sites in a number of candidate genes which show a strong correlation with the following phenotypes of the patients analysed: "Healthy" as used herein refers to individuals that neither suffer from existing CVD, nor exhibit an increased risk for CVD through their serum lipid level profile. "CVD prone" as used herein refers to individuals with existing CVD and/or a serum lipid profile that confers a high risk to get CVD (see Table 1a for definitions of healthy and CVD prone serum lipid levels). "High responder" as used herein refers to patients who benefit from relatively small amounts of a given drug. "Low responder" as used herein refers to patients who need relatively high doses in order to obtain benefit from the medication. "Tolerant patient" refers to individuals who can tolerate high doses of a medicament without exhibiting adverse drug reactions. "ADR patient" as used herein refers to individuals who suffer from ADR or show clinical symptoms (like creatine kinase elevation in

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blood) even after receiving only minor doses of a medicament (see Table 1b for a detailed definition of drug response phenotypes).

Polymorphic sites in candidate genes that were found to be significantly associated with either of the above mentioned phenotypes will be referred to as "phenotype associated SNPs" (PA SNPs). The respective genomic loci that harbour PA SNPs will be referred to as "phenotype associated genes" (PA genes), irrespective of the actual function of this gene locus.

As PA SNPs are linked to other SNPs in neighboring genes on a chromosome (Linkage Disequilibrium) those SNPs could also be used as marker SNPs. In a recent publication it was shown that SNPs are linked over 100 kb in some cases more than 150 kb (Reich D.E. et al. Nature 411, 199-204, 2001). Hence SNPs lying in regions neighbouring PA SNPs could be linked to the latter and by this being a diagnostic marker. These associations could be performed as described for the gene polymorphism in methods.

Definitions

For convenience, the meaning of certain terms and phrases employed in the specification, examples, and appended claims are provided below. Moreover, the definitions by itself are intended to explain a further background of the invention.

The term "allele", which is used interchangeably herein with "allelic variant" refers to alternative forms of a gene or portions thereof. Alleles occupy the same locus or position on homologous chromosomes. When a subject has two identical alleles of a gene, the subject is said to be homozygous for the gene or allele. When a subject has two different alleles of a gene, the subject is said to be heterozygous for the gene. Alleles of a specific gene can differ from each other in a single nucleotide, or several nucleotides, and can include substitutions, deletions, and insertions of nucleotides. An allele of a gene can also be a form of a gene containing a mutation.

The term "allelic variant of a polymorphic region of a gene" refers to a region of a gene having one of several nucleotide sequences found in that region of the gene in other individuals.

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"Homology" or "identity" or "similarity" refers to sequence similarity between two peptides or between two nucleic acid molecules. Homology can be determined by comparing a position in each sequence which may be aligned for purposes of comparison. When a position in the compared sequence is occupied by the same base or amino acid, then the molecules are homologous at that position. A degree of homology between sequences is a function of the number of matching or homologous positions shared by the sequences. An "unrelated" or "non-homologous" sequence shares less than 40% identity, though preferably less than 25% identity, with one of the sequences of the present invention.

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The term "a homologue of a nucleic acid" refers to a nucleic acid having a nucleotide sequence having a certain degree of homology with the nucleotide sequence of the nucleic acid or complement thereof. A homologue of a double stranded nucleic acid having SEQ ID NO. X is intended to include nucleic acids having a nucleotide sequence which has a certain degree of homology with SEQ ID NO. X or with the complement thereof. Preferred homologous of nucleic acids are capable of hybridizing to the nucleic acid or complement thereof.

The term "interact" as used herein is meant to include detectable interactions between molecules, such as can be detected using, for example, a hybridization assay.

The term interact is also meant to include "binding" interactions between molecules. Interactions may be, for example, protein-protein, protein-nucleic acid, protein-small molecule or small molecule-nucleic acid in nature.

The term "intronic sequence" or "intronic nucleotide sequence" refers to the nucleotide sequence of an intron or portion thereof.

The term "isolated" as used herein with respect to nucleic acids, such as DNA or RNA, refers to molecules separated from other DNAs or RNAs, respectively, that are present in the natural source of the macromolecule. The term isolated as used herein also refers to a nucleic acid or peptide that is substantially free of cellular material, viral material, or culture medium when produced by recombinant DNA techniques, or chemical precursors or other chemicals when chemically synthesized.

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Moreover, an "isolated nucleic acid" is meant to include nucleic acid fragments which are not naturally occurring as fragments and would not be found in the natural state. The term "isolated" is also used herein to refer to polypeptides which are isolated from other cellular proteins and is meant to encompass both purified and recombinant polypeptides.

The term "lipid" shall refer to a fat or fat-like substance that is insoluble in polar solvents such as water. The term "lipid" is intended to include true fats (e.g. esters of fatty acids and glycerol); lipids (phospholipids, cerebrosides, waxes); sterols (cholesterol, ergosterol) and lipoproteins (e.g. HDL, LDL and VLDL).

The term "locus" refers to a specific position in a chromosome. For example, a locus of a gene refers to the chromosomal position of the gene.

- The term "modulation" as used herein refers to both up-regulation, (i.e., activation or stimulation), for example by agonizing, and down-regulation (i.e. inhibition or suppression), for example by antagonizing of a bioactivity (e.g. expression of a gene).
- The term "molecular structure" of a gene or a portion thereof refers to the structure as defined by the nucleotide content (including deletions, substitutions, additions of one

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or more nucleotides), the nucleotide sequence, the state of methylation, and/or any other modification of the gene or portion thereof.

The term "mutated gene" refers to an allelic form of a gene, which is capable of altering the phenotype of a subject having the mutated gene relative to a subject which does not have the mutated gene. If a subject must be homozygous for this mutation to have an altered phenotype, the mutation is said to be recessive. If one copy of the mutated gene is sufficient to alter the genotype of the subject, the mutation is said to be dominant. If a subject has one copy of the mutated gene and has a phenotype that is intermediate between that of a homozygous and that of a heterozygous (for that gene) subject, the mutation is said to be co-dominant.

As used herein, the term "nucleic acid" refers to polynucleotides such as deoxyribonucleic acid (DNA), and, where appropriate, ribonucleic acid (RNA). The term should also be understood to include, as equivalents, derivatives, variants and analogs of either RNA or DNA made from nucleotide analogs, including peptide nucleic acids (PNA), morpholino oligonucleotides (J. Summerton and D. Weller, Antisense and Nucleic Acid Drug Development 7:187 (1997)) and, as applicable to the embodiment being described, single (sense or antisense) and double-stranded polynucleotides. Deoxyribonucleotides include deoxyadenosine, deoxycytidine, deoxyguanosine, and deoxythymidine. For purposes of clarity, when referring herein to a nucleotide of a nucleic acid, which can be DNA or an RNA, the term "adenosine", "cytidine", "guanosine", and "thymidine" are used. It is understood that if the nucleic acid is RNA, a nucleotide having a uracil base is uridine.

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The term "nucleotide sequence complementary to the nucleotide sequence set forth in SEQ ID NO. x" refers to the nucleotide sequence of the complementary strand of a nucleic acid strand having SEQ ID NO. x. The term "complementary strand" is used herein interchangeably with the term "complement". The complement of a nucleic acid strand can be the complement of a coding strand or the complement of a non-coding strand. When referring to double stranded nucleic acids, the complement of a

nucleic acid having SEQ ID NO. x refers to the complementary strand of the strand having SEQ ID NO. x or to any nucleic acid having the nucleotide sequence of the complementary strand of SEQ ID NO. x. When referring to a single stranded nucleic acid having the nucleotide sequence SEQ ID NO. x, the complement of this nucleic acid is a nucleic acid having a nucleotide sequence which is complementary to that of SEQ ID NO. x. The nucleotide sequences and complementary sequences thereof are always given in the 5' to 3' direction. The term "complement" and "reverse complement" are used interchangeably herein.

The term "operably linked" is intended to mean that the promoter is associated with the nucleic acid in such a manner as to facilitate transcription of the nucleic acid.

The term "polymorphism" refers to the coexistence of more than one form of a gene or portion thereof. A portion of a gene of which there are at least two different forms, i.e., two different nucleotide sequences, is referred to as a "polymorphic region of a gene". A polymorphic region can be a single nucleotide, the identity of which differs in different alleles. A polymorphic region can also be several nucleotides long.

A "polymorphic gene" refers to a gene having at least one polymorphic region.

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To describe a "polymorphic site" in a nucleotide sequence often there is used an "ambiguity code" that stands for the possible variations of nucleotides in one site. The list of ambiguity codes is summarized in the following table:

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Ambiguity	Codes
(IUPAC Nomenclature)	
В	c/g/t
D	a/g/t
H	a/c/t
K	g/t
M	a/c
N	a/c/g/t
· R	a/g
S	c/g
V	a/c/g
W	a/t
Y	c/t

So, for example, a "R" in a nucleotide sequence means that either an "a" or a "g" could be at that position.

The terms "protein", "polypeptide" and "peptide" are used interchangeably herein when referring to a gene product.

A "regulatory element", also termed herein "regulatory sequence is intended to include elements which are capable of modulating transcription from a basic promoter and include elements such as enhancers and silencers. The term "enhancer", also referred to herein as "enhancer element", is intended to include regulatory elements capable of increasing, stimulating, or enhancing transcription from a basic promoter. The term "silencer", also referred to herein as "silencer element" is intended to include regulatory elements capable of decreasing, inhibiting, or repressing transcription from a basic promoter. Regulatory elements are typically present in 5' flanking regions of genes. However, regulatory elements have also been shown to be present in other regions of a gene, in particular in introns. Thus, it is possible that genes have regulatory elements located in introns, exons, coding

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regions, and 3' flanking sequences. Such regulatory elements are also intended to be encompassed by the present invention and can be identified by any of the assays that can be used to identify regulatory elements in 5' flanking regions of genes.

The term "regulatory element" further encompasses "tissue specific" regulatory elements, i.e., regulatory elements which effect expression of the selected DNA sequence preferentially in specific cells (e.g., cells of a specific tissue). gene expression occurs preferentially in a specific cell if expression in this cell type is significantly higher than expression in other cell types. The term "regulatory element" also encompasses non-tissue specific regulatory elements, i.e., regulatory elements which are active in most cell types. Furthermore, a regulatory element can be a constitutive regulatory element, i.e., a regulatory element which constitutively regulates transcription, as opposed to a regulatory element which is inducible, i.e., a regulatory element which is active primarily in response to a stimulus. A stimulus can be, e.g., a molecule, such as a hormone, cytokine, heavy metal, phorbol ester, cyclic AMP (cAMP), or retinoic acid.

Regulatory elements are typically bound by proteins, e.g., transcription factors. The term "transcription factor" is intended to include proteins or modified forms thereof, which interact preferentially with specific nucleic acid sequences, i.e., regulatory elements, and which in appropriate conditions stimulate or repress transcription. Some transcription factors are active when they are in the form of a monomer. Alternatively, other transcription factors are active in the form of a dimer consisting of two identical proteins or different proteins (heterodimer). Modified forms of transcription factors are intended to refer to transcription factors having a post-translational modification, such as the attachment of a phosphate group. The activity of a transcription factor is frequently modulated by a post-translational modification. For example, certain transcription factors are active only if they are phosphorylated on specific residues. Alternatively, transcription factors can be active in the absence of phosphorylated residues and become inactivated by phosphorylation. A list of

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known transcription factors and their DNA binding site can be found, e.g., in public databases, e.g., TFMATRIX Transcription Factor Binding Site Profile database.

As used herein, the term "specifically hybridizes" or "specifically detects" refers to the ability of a nucleic acid molecule of the invention to hybridize to at least approximately 6, 12, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130 or 140 consecutive nucleotides of either strand of a gene.

The term "wild-type allele" refers to an allele of a gene which, when present in two copies in a subject results in a wild-type phenotype. There can be several different wild-type alleles of a specific gene, since certain nucleotide changes in a gene may not affect the phenotype of a subject having two copies of the gene with the nucleotide changes.

"Adverse drug reaction" (ADR) as used herein refers to an appreciably harmful or unpleasant reaction, resulting from an intervention related to the use of a medicinal product, whichpredicts hazard from future administration and warrants prevention or specific treatment, or alteration of the dosage regimen, or withdrawal of the product. In it's most severe form an ADR might lead to the death of an individual.

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The term "Drug Response" is intended to mean any response that a patient exhibits upon drug administration. Specifically drug response includes beneficial, i.e. desired drug effects, ADR or no detectable reaction at all. More specifically the term drug response could also have a qualitative meaning, i.e. it embraces low or high beneficial effects, respectively and mild or severe ADR, respectively. The term "Statin Response" as used herein refers to drug response after statin administration. An individual drug response includes also a good or bad metabolizing of the drug, meaning that "bad metabolizers" accumulate the drug in the body and by this could show side effects of the drug due to accumulative overdoses.

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"Candidate gene" as used herein includes genes that can be assigned to either normal cardiovascular function or to metabolic pathways that are related to onset and/or progression of cardiovascular diseases.

- With regard to drug response the term "candidate gene" includes genes that can be assigned to distinct phenotypes regarding the patient's response to drug administration. Those phenotypes may include patients who benefit from relatively small amounts of a given drug (high responders) or patients who need relatively high doses in order to obtain the same benefit (low responders). In addition those phenotypes may include patients who can tolerate high doses of a medicament without exhibiting ADR, or patients who suffer from ADR even after receiving only low doses of a medicament.
- As neither the development of cardiovascular diseases nor the patient's response to drug administration is completely understood, the term "candidate gene" may also comprise genes with presently unknown function.
 - "PA SNP" (phenotype associated SNP) refers to a polymorphic site which shows a significant association with a patients phenotype (healthy, diseased, low or high responder, drug tolerant, ADR prone, etc.)
 - "PA gene" (phenotype associated gene) refers to a genomic locus harbouring a PA SNP, irrespective of the actual function of this gene locus.
- PA gene polypeptide refers to a polypeptide encoded at least in part by a PA gene.
 - The term "Secondary SNP" is intended to mean a SNP that is in neighborhood to at least one other ("primary") SNP. Due to linkage disequillibrium both primary and secondary SNP(s) might shown a similar association with a phenotype.

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The term "Haplotype" as used herein refers to a group of two or more SNPs that are functionally and/or spatially linked. I.e. haplotypes define groups of SNPs that lie inside genes belonging to identical (or related metabolic) pathways and/or lie on the same chromosome. Haplotypes are expected to give better predictive/diagnostic information than a single SNP

The term "statin" is intended to embrace all inhibitors of the enzyme 3-hydroxy-3-methylglutaryl coenzyme A (HMG-CoA) reductase. Statins specifically inhibit the enzyme HMG-CoA reductase which catalyzes the rate limiting step in cholesterol biosynthesis. Known statins are Atorvastatin, Cerivastatin, Fluvastatin, Lovastatin, Pravastatin and Simyastatin.

Methods for Assessing Cardiovascular Status

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The present invention provides diagnostic methods for assessing cardiovascular status in a human individual. Cardiovascular status as used herein refers to the physiological status of an individual's cardiovascular system as reflected in one or more markers or indicators. Status markers include without limitation clinical measurements such as, e.g., blood pressure, electrocardiographic profile, and differentiated blood flow analysis as well as measurements of LDL- and HDL-Cholesterol levels, other lipids and other well established clinical parameters that are standard in the art. Status markers according to the invention include diagnoses of one or more cardiovascular syndromes, such as, e.g., hypertension, acute myocardial infarction, silent myocardial infarction, stroke, and atherosclerosis. It will be understood that a diagnosis of a cardiovascular syndrome made by a medical practitioner encompasses clinical measurements and medical judgement. Status markers according to the invention are assessed using conventional methods well known in the art. Also included in the evaluation of cardiovascular status are quantitative or qualitative changes in status markers with time, such as would be used, e.g., in the determination of an individual's response to a particular therapeutic regimen.

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The methods are carried out by the steps of:

(i) determining the sequence of one or more polymorphic positions within one, several or all of the genes listed in Examples or other genes mentioned in this file in the individual to establish a polymorphic pattern for the individual; and

comparing the polymorphic pattern established in (i) with the polymorphic patterns of humans exhibiting different markers of cardiovascular status. The polymorphic pattern of the individual is, preferably, highly similar and, most preferably, identical to the polymorphic pattern of individuals who exhibit particular status markers, cardiovascular syndromes, and/or particular patterns of response to therapeutic interventions. Polymorphic patterns may also include polymorphic positions in other genes which are shown, in combination with one or more polymorphic positions in the genes listed in the Examples, to correlate with the presence of particular status markers. In one embodiment, the method involves comparing an individual's polymorphic pattern with polymorphic patterns of individuals who have been shown to respond positively or negatively to a particular therapeutic regimen. Therapeutic regimen as used herein refers to treatments aimed at the elimination or amelioration of symptoms and events associated cardiovascular disease. Such treatments include without limitation one or more of alteration in diet, lifestyle, and exercise regimen; invasive and noninvasive surgical techniques such as atherectomy, angioplasty, and coronary bypass surgery; and pharmaceutical interventions, such as administration of ACE inhibitors. angiotensin II receptor antagonists, diuretics, alpha-adrenoreceptor antagonists, cardiac glycosides, phosphodiesterase inhibitors, beta-adrenoreceptor antagonists, calcium channel blockers, HMG-CoA reductase inhibitors, imidazoline receptor blockers, endothelin receptor blockers, organic nitrites, and modulators of protein function of genes listed in the Examples. Interventions with pharmaceutical agents not yet known whose activity

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correlates with particular polymorphic patterns associated with cardiovascular disease are also encompassed. It is contemplated, for example, that patients who are candidates for a particular therapeutic regimen will be screened for polymorphic patterns that correlate with responsivity to that particular regimen.

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In a preferred embodiment, the method involves comparing an individual's polymorphic pattern with polymorphic patterns of individuals who exhibit or have exhibited one or more markers of cardiovascular disease, such as, e.g., elevated LDL-Cholesterol levels, high blood pressure, abnormal electrocardiographic profile, myocardial infarction, stroke, or atherosclerosis.

In another embodiment, the method involves comparing an individual's polymorphic pattern with polymorphic patterns of individuals who exhibit or have exhibited one or more drug related phenotypes, such as, e.g., low or high drug response, or adverse drug reactions.

In practicing the methods of the invention, an individual's polymorphic pattern can be established by obtaining DNA from the individual and determining the sequence at predetermined polymorphic positions in the genes such as those described in this file.

The DNA may be obtained from any cell source. Non-limiting examples of cell sources available in clinical practice include blood cells, buccal cells, cervicovaginal cells, epithelial cells from urine, fetal cells, or any cells present in tissue obtained by biopsy. Cells may also be obtained from body fluids, including without limitation blood, saliva, sweat, urine, cerebrospinal fluid, feces, and tissue exudates at the site of infection or inflammation. DNA is extracted from the cell source or body fluid using any of the numerous methods that are standard in the art. It will be understood that the particular method used to extract DNA will depend on the nature of the source.

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Diagnostic and Prognostic Assays

The present invention provides methods for determining the molecular structure of at least one polymorphic region of a gene, specific allelic variants of said polymorphic region being associated with cardiovascular disease. In one embodiment, determining the molecular structure of a polymorphic region of a gene comprises determining the identity of the allelic variant. A polymorphic region of a gene, of which specific alleles are associated with cardiovascular disease can be located in an exon, an intron, at an intron/exon border, or in the promoter of the gene.

The invention provides methods for determining whether a subject has, or is at risk, of developing a cardiovascular disease. Such disorders can be associated with an aberrant gene activity, e.g., abnormal binding to a form of a lipid, or an aberrant gene protein level. An aberrant gene protein level can result from an aberrant transcription or post-transcriptional regulation. Thus, allelic differences in specific regions of a gene can result in differences of gene protein due to differences in regulation of expression. In particular, some of the identified polymorphisms in the human gene may be associated with differences in the level of transcription, RNA maturation, splicing, or translation of the gene or transcription product.

In preferred embodiments, the methods of the invention can be characterized as comprising detecting, in a sample of cells from the subject, the presence or absence of a specific allelic variant of one or more polymorphic regions of a gene. The allelic differences can be: (i) a difference in the identity of at least one nucleotide or (ii) a difference in the number of nucleotides, which difference can be a single nucleotide or several nucleotides.

A preferred detection method is allele specific hybridization using probes overlapping the polymorphic site and having about 5, 10, 20, 25, or 30 nucleotides around the polymorphic region. Examples of probes for detecting specific allelic

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variants of the polymorphic region located in intron X are probes comprising a nucleotide sequence set forth in any of SEQ ID NO. X. In a preferred embodiment of the invention, several probes capable of hybridizing specifically to allelic variants are attached to a solid phase support, e.g., a "chip". Oligonucleotides can be bound to a solid support by a variety of processes, including lithography. For example a chip can hold up to 250,000 oligonucleotides (GeneChip, Affymetrix). Mutation detection analysis using these chips comprising oligonucleotides, also termed "DNA probe arrays" is described e.g., in Cronin et al. (1996) Human Mutation 7:244 and in Kozal et al. (1996) Nature Medicine 2:753. In one embodiment, a chip comprises all the allelic variants of at least one polymorphic region of a gene. The solid phase support is then contacted with a test nucleic acid and hybridization to the specific probes is detected. Accordingly, the identity of numerous allelic variants of one or more genes can be identified in a simple hybridization experiment. For example, the identity of the allelic variant of the nucleotide polymorphism of nucleotide A or G at position 33 of Seq ID 1 (baySNP179) and that of other possible polymorphic regions can be determined in a single hybridization experiment.

In other detection methods, it is necessary to first amplify at least a portion of a gene prior to identifying the allelic variant. Amplification can be performed, e.g., by PCR and/or LCR, according to methods known in the art. In one embodiment, genomic DNA of a cell is exposed to two PCR primers and amplification for a number of cycles sufficient to produce the required amount of amplified DNA. In preferred embodiments, the primers are located between 40 and 350 base pairs apart. Preferred primers for amplifying gene fragments of genes of this file are listed in Table 2 in the Examples.

Alternative amplification methods include: self sustained sequence replication (Guatelli, J. C. et al., 1990, Proc. Natl. Acad. Sci. U.S.A. 87:1874-1878), transcriptional amplification system (Kwoh, D. Y. et al., 1989, Proc. Natl. Acad. Sci. U.S.A. 86:1173-1177), Q-Beta Replicase (Lizardi, P. M. et al., 1988, Bio/Technology 6:1197), or any other nucleic acid amplification method, followed

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by the detection of the amplified molecules using techniques well known to those of skill in the art. These detection schemes are especially useful for the detection of nucleic acid molecules if such molecules are present in very low numbers.

In one embodiment, any of a variety of sequencing reactions known in the art can be used to directly sequence at least a portion of a gene and detect allelic variants, e.g., mutations, by comparing the sequence of the sample sequence with the corresponding wild-type (control) sequence. Exemplary sequencing reactions include those based on techniques developed by Maxam and Gilbert (Proc. Natl Acad Sci USA (1977) 74:560) or Sanger (Sanger et al (1977) Proc. Nat. Acad. Sci 74:5463). It is also contemplated that any of a variety of automated sequencing procedures may be utilized when performing the subject assays (Biotechniques (1995) 19:448), including sequencing by mass spectrometry (see, for example, U.S. Pat. No. 5,547,835 and international patent application Publication Number WO 94/16101, entitled DNA Sequencing by Mass Spectrometry by H. Koster, U.S. Pat. No. 5,547,835 and international patent application Publication Number WO 94/21822 entitled "DNA Sequencing by Mass Spectrometry Via Exonuclease Degradation" by H. Koster), and U.S. Pat. No. 5,605,798 and International Patent Application No. PCT/US96/03651 entitled DNA Diagnostics Based on Mass Spectrometry by H. Koster, Cohen et al. (1996) Adv Chromatogr 36:127-162; and Griffin et al. (1993) Appl Biochem Biotechnol 38:147-159). It will be evident to one skilled in the art that, for certain embodiments, the occurrence of only one, two or three of the nucleic acid bases need be determined in the sequencing reaction. For instance, A-track or the like, e.g., where only one nucleotide is detected, can be carried out.

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Yet other sequencing methods are disclosed, e.g., in U.S. Pat. No. 5,580,732 entitled "Method of DNA sequencing employing a mixed DNA-polymer chain probe" and U.S. Pat. No. 5,571,676 entitled "Method for mismatch-directed in vitro DNA sequencing".

In some cases, the presence of a specific allele of a gene in DNA from a subject can be shown by restriction enzyme analysis. For example, a specific nucleotide polymorphism can result in a nucleotide sequence comprising a restriction site which is absent from the nucleotide sequence of another allelic variant.

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In other embodiments, alterations in electrophoretic mobility is used to identify the type of gene allelic variant. For example, single strand conformation polymorphism (SSCP) may be used to detect differences in electrophoretic mobility between mutant and wild type nucleic acids (Orita et al. (1989) Proc Natl. Acad. Sci USA 86:2766, see also Cotton (1993) Mutat Res 285:125-144; and Hayashi (1992) Genet Anal Tech Appl 9:73-79). Single-stranded DNA fragments of sample and control nucleic acids are denatured and allowed to renature. The secondary structure of single-stranded nucleic acids varies according to sequence, the resulting alteration in electrophoretic mobility enables the detection of even a single base change. The DNA fragments may be labeled or detected with labeled probes. The sensitivity of the assay may be enhanced by using RNA (rather than DNA), in which the secondary structure is more sensitive to a change in sequence. In another preferred embodiment, the subject method utilizes heteroduplex analysis to separate double stranded heteroduplex molecules on the basis of changes in electrophoretic mobility (Keen et al. (1991) Trends Genet 7:5).

In yet another embodiment, the identity of an allelic variant of a polymorphic region is obtained by analyzing the movement of a nucleic acid comprising the polymorphic region in polyacrylamide gels containing a gradient of denaturant is assayed using denaturing gradient gel electrophoresis (DGGE) (Myers et al (1985) Nature 313:495). When DGGE is used as the method of analysis, DNA will be modified to insure that it does not completely denature, for example by adding a GC clamp of approximately 40 bp of high-melting GC-rich DNA by PCR. In a further embodiment, a temperature gradient is used in place of a denaturing agent gradient to identify differences in the mobility of control and sample DNA (Rosenbaum and Reissner (1987) Biophys Chem 265:1275).

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Examples of techniques for detecting differences of at least one nucleotide between 2 nucleic acids include, but are not limited to, selective oligonucleotide hybridization, selective amplification, or selective primer extension. For example, oligonucleotide probes may be prepared in which the known polymorphic nucleotide is placed centrally (allele-specific probes) and then hybridized to target DNA under conditions which permit hybridization only if a perfect match is found (Saiki et al. (1986) Nature 324:163); Saiki et al (1989) Proc. Natl Acad. Sci USA 86:6230; and Wallace et al. (1979) Nucl. Acids Res. 6:3543). Such allele specific oligonucleotide hybridization techniques may be used for the simultaneous detection of several nucleotide changes in different polymorphic regions of gene. For example, oligonucleotides having nucleotide sequences of specific allelic variants are attached to a hybridizing membrane and this membrane is then hybridized with labeled sample nucleic acid. Analysis of the hybridization signal will then reveal the identity of the nucleotides of the sample nucleic acid.

Alternatively, allele specific amplification technology which depends on selective PCR amplification may be used. Oligonucleotides used as primers for specific amplification may carry the allelic variant of interest in the center of the molecule (so that amplification depends on differential hybridization) (Gibbs et al (1989) Nucleic Acids Res. 17:2437-2448) or at the extreme 3' end of one primer where, under appropriate conditions, mismatch can prevent, or reduce polymerase extension (Prossner (1993) Tibtech 11:238; Newton et al. (1989) Nucl. Acids Res. 17:2503). This technique is also termed "PROBE" for Probe Oligo Base Extension. In addition it may be desirable to introduce a novel restriction site in the region of the mutation to create cleavage-based detection (Gasparini et al (1992) Mol. Cell Probes 6:1).

In another embodiment, identification of the allelic variant is carried out using an oligonucleotide ligation assay (OLA), as described, e.g., in U.S. Pat. No. 4,998,617 and in Landegren, U. et al., Science 241:1077-1080 (1988). The OLA protocol uses two oligonucleotides which are designed to be capable of hybridizing to abutting

sequences of a single strand of a target. One of the oligonucleotides is linked to a separation marker, e.g., biotinylated, and the other is detectably labeled. If the precise complementary sequence is found in a target molecule, the oligonucleotides will hybridize such that their termini abut, and create a ligation substrate. Ligation then permits the labeled oligonucleotide to be recovered using avidin, or another biotin ligand. Nickerson, D. A. et al. have described a nucleic acid detection assay that combines attributes of PCR and OLA (Nickerson, D. A. et al., Proc. Natl. Acad. Sci. (U.S.A.) 87:8923-8927 (1990). In this method, PCR is used to achieve the exponential amplification of target DNA, which is then detected using OLA.

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Several techniques based on this OLA method have been developed and can be used to detect specific allelic variants of a polymorphic region of a gene. For example, U.S. Pat. No. 5,593,826 discloses an OLA using an oligonucleotide having 3'-amino group and a 5'-phosphorylated oligonucleotide to form a conjugate having a phosphoramidate linkage. In another variation of OLA described in Tobe et al. ((1996)Nucleic Acids Res 24: 3728), OLA combined with PCR permits typing of two alleles in a single microtiter well. By marking each of the allele-specific primers with a unique hapten, i.e. digoxigenin and fluorescein, each LA reaction can be detected by using hapten specific antibodies that are labeled with different enzyme reporters, alkaline phosphatase or horseradish peroxidase. This system permits the detection of the two alleles using a high throughput format that leads to the production of two different colors.

The invention further provides methods for detecting single nucleotide polymorphisms in a gene. Because single nucleotide polymorphisms constitute sites of variation flanked by regions of invariant sequence, their analysis requires no more than the determination of the identity of the single nucleotide present at the site of variation and it is unnecessary to determine a complete gene sequence for each patient. Several methods have been developed to facilitate the analysis of such single nucleotide polymorphisms.

In one embodiment, the single base polymorphism can be detected by using a specialized exonuclease-resistant nucleotide, as disclosed, e.g., in Mundy, C. R. (U.S. Pat. No. 4,656,127). According to the method, a primer complementary to the allelic sequence immediately 3' to the polymorphic site is permitted to hybridize to a target molecule obtained from a particular animal or human. If the polymorphic site on the target molecule contains a nucleotide that is complementary to the particular exonuclease-resistant nucleotide derivative present, then that derivative will be incorporated onto the end of the hybridized primer. Such incorporation renders the primer resistant to exonuclease, and thereby permits its detection. Since the identity of the exonuclease-resistant derivative of the sample is known, a finding that the primer has become resistant to exonucleases reveals that the nucleotide present in the polymorphic site of the target molecule was complementary to that of the nucleotide derivative used in the reaction. This method has the advantage that it does not require the determination of large amounts of extraneous sequence data.

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In another embodiment of the invention, a solution-based method is used for determining the identity of the nucleotide of a polymorphic site. Cohen, D. et al. (French Patent 2,650,840; PCT Appln. No. WO91/02087). As in the Mundy method of U.S. Pat. No. 4,656,127, a primer is employed that is complementary to allelic sequences immediately 3' to a polymorphic site. The method determines the identity of the nucleotide of that site using labeled dideoxynucleotide derivatives, which, if complementary to the nucleotide of the polymorphic site will become incorporated onto the terminus of the primer.

An alternative method, known as Genetic Bit Analysis or GBA TM is described by Goelet, P. et al. (PCT Appln. No. 92/15712). The method of Goelet, P. et al. uses mixtures of labeled terminators and a primer that is complementary to the sequence 3' to a polymorphic site. The labeled terminator that is incorporated is thus determined by, and complementary to, the nucleotide present in the polymorphic site of the target molecule being evaluated. In contrast to the method of Cohen et al. (French Patent 2,650,840; PCT Appln. No. WO91/02087) the method of Goelet, P. et

al. is preferably a heterogeneous phase assay, in which the primer or the target molecule is immobilized to a solid phase.

Recently, several primer-guided nucleotide incorporation procedures for assaying polymorphic sites in DNA have been described (Komher, J. S. et al., Nucl. Acids. Res. 17:7779-7784 (1989); Sokolov, B. P., Nucl. Acids Res. 18:3671 (1990); Syvanen, A. -C., et al., Genomics 8:684-692 (1990), Kuppuswamy, M. N. et al., Proc. Natl. Acad. Sci. (U.S.A.) 88:1143-1147 (1991); Prezant, T. R. et al., Hum. Mutat. 1:159-164 (1992); Ugozzoli, L. et al., GATA 9:107-112 (1992); Nyren, P. et al., Anal. Biochem. 208:171-175 (1993)). These methods differ from GBA TM in that they all rely on the incorporation of labeled deoxynucleotides to discriminate between bases at a polymorphic site. In such a format, since the signal is proportional to the number of deoxynucleotides incorporated, polymorphisms that occur in runs of the same nucleotide can result in signals that are proportional to the length of the run (Syvanen, A.-C., et al., Amer. J. Hum. Genet. 52:46-59 (1993)).

For determining the identity of the allelic variant of a polymorphic region located in the coding region of a gene, yet other methods than those described above can be used. For example, identification of an allelic variant which encodes a mutated gene protein can be performed by using an antibody specifically recognizing the mutant protein in, e.g., immunohistochemistry or immunoprecipitation. Antibodies to wild-type gene protein are described, e.g., in Acton et al. (1999) Science 271:518 (antimouse gene antibody cross-reactive with human gene). Other antibodies to wild-type gene or mutated forms of gene proteins can be prepared according to methods known in the art. Alternatively, one can also measure an activity of an gene protein, such as binding to a lipid or lipoprotein. Binding assays are known in the art and involve, e.g., obtaining cells from a subject, and performing binding experiments with a labeled lipid, to determine whether binding to the mutated form of the receptor differs from binding to the wild-type of the receptor.

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If a polymorphic region is located in an exon, either in a coding or non-coding region of the gene, the identity of the allelic variant can be determined by determining the molecular structure of the mRNA, pre-mRNA, or cDNA. The molecular structure can be determined using any of the above described methods for determining the molecular structure of the genomic DNA, e.g., sequencing and SSCP.

The methods described herein may be performed, for example, by utilizing prepackaged diagnostic kits, such as those described above, comprising at least one probe or primer nucleic acid described herein, which may be conveniently used, e.g., to determine whether a subject has or is at risk of developing a disease associated with a specific gene allelic variant.

Sample nucleic acid for using in the above-described diagnostic and prognostic methods can be obtained from any cell type or tissue of a subject. For example, a subject's bodily fluid (e.g. blood) can be obtained by known techniques (e.g. venipuncture) or from human tissues like heart (biopsies, transplanted organs). Alternatively, nucleic acid tests can be performed on dry samples (e.g. hair or skin). Fetal nucleic acid samples for prenatal diagnostics can be obtained from maternal blood as described in International Patent Application No.WO91/07660 to Bianchi. Alternatively, amniocytes or chorionic villi may be obtained for performing prenatal testing.

Diagnostic procedures may also be performed in situ directly upon tissue sections (fixed and/or frozen) of patient tissue obtained from biopsies or resections, such that no nucleic acid purification is necessary. Nucleic acid reagents may be used as probes and/or primers for such in situ procedures (see, for example, Nuovo, G. J., 1992, PCR in situ hybridization: protocols and applications, Raven Press, New York).

In addition to methods which focus primarily on the detection of one nucleic acid sequence, profiles may also be assessed in such detection schemes. Fingerprint

profiles may be generated, for example, by utilizing a differential display procedure, Northern analysis and/or RT-PCR.

In practicing the present invention, the distribution of polymorphic patterns in a large number of individuals exhibiting particular markers of cardiovascular status or drug response is determined by any of the methods described above, and compared with the distribution of polymorphic patterns in patients that have been matched for age, ethnic origin, and/or any other statistically or medically relevant parameters, who exhibit quantitatively or qualitatively different status markers. Correlations are achieved using any method known in the art, including nominal logistic regression, chi square tests or standard least squares regression analysis. In this manner, it is possible to establish statistically significant correlations between particular polymorphic patterns and particular cardiovascular statuses (given in p values). It is further possible to establish statistically significant correlations between particular polymorphic patterns and changes in cardiovascular status or drug response such as, would result, e.g., from particular treatment regimens. In this manner, it is possible to correlate polymorphic patterns with responsivity to particular treatments.

In another embodiment of the present invention two or more polymorphic regions are combined to define so called 'haplotypes'. Haplotypes are groups of two or more SNPs that are functionally and/or spatially linked. It is possible to combine SNPs that are disclosed in the present invention either with each other or with additional polymorphic regions to form a haplotype. Haplotypes are expected to give better predictive/diagnostic information than a single SNP.

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In a preferred embodiment of the present invention a panel of SNPs/haplotypes is defined that predicts the risk for CVD or drug response. This predictive panel is then used for genotyping of patients on a platform that can genotype multiple SNPs at the same time (Multiplexing). Preferred platforms are e.g. gene chips (Affymetrix) or the Luminex LabMAP reader. The subsequent identification and evaluation of a patient's haplotype can then help to guide specific and individualized therapy.

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For example the present invention can identify patients exhibiting genetic polymorphisms or haplotypes which indicate an increased risk for adverse drug reactions. In that case the drug dose should be lowered in a way that the risk for ADR is diminished. Also if the patient's response to drug administration is particularly high (or the patient is badly metabolizing the drug), the drug dose should be lowered to avoid the risk of ADR.

In turn if the patient's response to drug administration is low (or the patient is a particularly high metabolizer of the drug), and there is no evident risk of ADR, the drug dose should be raised to an efficacious level.

It is self evident that the ability to predict a patient's individual drug response should affect the formulation of a drug, i.e. drug formulations should be tailored in a way that they suit the different patient classes (low/high responder, poor/good metabolizer, ADR prone patients). Those different drug formulations may encompass different doses of the drug, i.e. the medicinal products contains low or high amounts of the active substance. In another embodiement of the invention the drug formulation may contain additional substances that facilitate the beneficial effects and/or diminish the risk for ADR (Folkers et al. 1991, US Pat. 5,316,765).

Isolated Polymorphic Nucleic Acids, Probes, and Vectors

The present invention provides isolated nucleic acids comprising the polymorphic positions described herein for human genes; vectors comprising the nucleic acids; and transformed host cells comprising the vectors. The invention also provides probes which are useful for detecting these polymorphisms.

In practicing the present invention, many conventional techniques in molecular biology, microbiology, and recombinant DNA, are used. Such techniques are well known and are explained fully in, for example, Sambrook et al., 1989, Molecular

Cloning: A Laboratory Manual, Second Edition, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York; DNA Cloning: A Practical Approach, Volumes I and II, 1985 (D. N. Glover ed.); Oligonucleotide Synthesis, 1984, (M. L.Gait ed.); Nucleic Acid Hybridization, 1985, (Hames and Higgins); Ausubel et al., Current Protocols in Molecular Biology, 1997, (John Wiley and Sons); and Methods in Enzymology Vol. 154 and Vol. 155 (Wu and Grossman, and Wu, eds., respectively).

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Insertion of nucleic acids (typically DNAs) comprising the sequences in a functional surrounding like full length cDNA of the present invention into a vector is easily accomplished when the termini of both the DNAs and the vector comprise compatible restriction sites. If this cannot be done, it may be necessary to modify the termini of the DNAs and/or vector by digesting back single-stranded DNA overhangs generated by restriction endonuclease cleavage to produce blunt ends, or to achieve the same result by filling in the single-stranded termini with an appropriate DNA polymerase.

Alternatively, any site desired may be produced, e.g., by ligating nucleotide sequences (linkers) onto the termini. Such linkers may comprise specific oligonucleotide sequences that define desired restriction sites. Restriction sites can also be generated by the use of the polymerase chain reaction (PCR). See, e.g., Saiki et al., 1988, Science 239:48. The cleaved vector and the DNA fragments may also be modified if required by homopolymeric tailing.

The nucleic acids may be isolated directly from cells or may be chemically synthesized using known methods. Alternatively, the polymerase chain reaction (PCR) method can be used to produce the nucleic acids of the invention, using either chemically synthesized strands or genomic material as templates. Primers used for PCR can be synthesized using the sequence information provided herein and can further be designed to introduce appropriate new restriction sites, if desirable, to facilitate incorporation into a given vector for recombinant expression.

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The nucleic acids of the present invention may be flanked by native gene sequences, or may be associated with heterologous sequences, including promoters, enhancers, response elements, signal sequences, polyadenylation sequences, introns, 5'- and 3'noncoding regions, and the like. The nucleic acids may also be modified by many means known in the art. Non-limiting examples of such modifications include methylation, "caps", substitution of one or more of the naturally occurring nucleotides with an analog, internucleotide modifications such as, for example, those with uncharged linkages (e.g., methyl phosphonates, phosphotriesters, phosphoroamidates, carbamates, morpholines etc.) and with charged linkages (e.g., phosphorothioates, phosphorodithioates, etc.). Nucleic acids may contain one or more additional covalently linked moieties, such as, for example, proteins (e.g., nucleases, toxins, antibodies, signal peptides, poly-L-lysine, etc.), intercalators (e.g., acridine, psoralen, etc.), chelators (e.g., metals, radioactive metals, iron, oxidative metals, etc.), and alkylators. PNAs are also included. The nucleic acid may be derivatized by formation of a methyl or ethyl phosphotriester or an alkyl phosphoramidate linkage. Furthermore, the nucleic acid sequences of the present invention may also be modified with a label capable of providing a detectable signal, either directly or indirectly. Exemplary labels include radioisotopes, fluorescent molecules, biotin, and the like.

The invention also provides nucleic acid vectors comprising the gene sequences or derivatives or fragments thereof of genes described in the Examles. A large number of vectors, including plasmid and fungal vectors, have been described for replication and/or expression in a variety of eukaryotic and prokaryotic hosts, and may be used for gene therapy as well as for simple cloning or protein expression. Non-limiting examples of suitable vectors include without limitation pUC plasmids, pET plasmids (Novagen, Inc., Madison, Wis.), or pRSET or pREP (Invitrogen, San Diego, Calif.), and many appropriate host cells, using methods disclosed or cited herein or otherwise known to those skilled in the relevant art. The particular choice of vector/host is not critical to the practice of the invention.

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Suitable host cells may be transformed/transfected/infected as appropriate by any suitable method including electroporation, CaCl₂ mediated DNA uptake, fungal or viral infection, microinjection, microprojectile, or other established methods. Appropriate host cells included bacteria, archebacteria, fungi, especially yeast, and plant and animal cells, especially mammalian cells. A large number of transcription initiation and termination regulatory regions have been isolated and shown to be effective in the transcription and translation of heterologous proteins in the various hosts. Examples of these regions, methods of isolation, manner of manipulation, etc. are known in the art. Under appropriate expression conditions, host cells can be used as a source of recombinantly produced peptides and polypeptides encoded by genes of the Examples. Nucleic acids encoding peptides or polypeptides from gene sequences of the Examples may also be introduced into cells by recombination events. For example, such a sequence can be introduced into a cell and thereby effect homologous recombination at the site of an endogenous gene or a sequence with substantial identity to the gene. Other recombination-based methods such as nonhomologous recombinations or deletion of endogenous genes by homologous recombination may also be used.

In case of proteins that form heterodimers or other multimers, both or all subunits have to be expressed in one system or cell.

The nucleic acids of the present invention find use as probes for the detection of genetic polymorphisms and as templates for the recombinant production of normal or variant peptides or polypeptides encoded by genes listed in the Examples.

Probes in accordance with the present invention comprise without limitation isolated nucleic acids of about 10-100 bp, preferably 15-75 bp and most preferably 17-25 bp in length, which hybridize at high stringency to one or more of the polymorphic sequences disclosed herein or to a sequence immediately adjacent to a polymorphic position. Furthermore, in some embodiments a full-length gene sequence may be

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used as a probe. In one series of embodiments, the probes span the polymorphic positions in genes disclosed herein. In another series of embodiments, the probes correspond to sequences immediately adjacent to the polymorphic positions.

5 Polymorphic Polypeptides and Polymorphism-Specific Antibodies

The present invention encompasses isolated peptides and polypeptides encoded by genes listed in the Examples comprising polymorphic positions disclosed herein. In one preferred embodiment, the peptides and polypeptides are useful screening targets to identify cardiovascular drugs. In another preferred embodiments, the peptides and polypeptides are capable of eliciting antibodies in a suitable host animal that react specifically with a polypeptide comprising the polymorphic position and distinguish it from other polypeptides having a different sequence at that position.

Polypeptides according to the invention are preferably at least five or more residues in length, preferably at least fifteen residues. Methods for obtaining these polypeptides are described below. Many conventional techniques in protein biochemistry and immunology are used. Such techniques are well known and are explained in Immunochemical Methods in Cell and Molecular Biology, 1987 (Mayer and Waler, eds; Academic Press, London); Scopes, 1987, Protein Purification: Principles and Practice, Second Edition (Springer-Verlag, N.Y.) and Handbook of Experimental Immunology, 1986, Volumes I-IV (Weir and Blackwell eds.).

Nucleic acids comprising protein-coding sequences can be used to direct the ITT recombinant expression of polypeptides encoded by genes disclosed herein in intact cells or in cell-free translation systems. The known genetic code, tailored if desired for more efficient expression in a given host organism, can be used to synthesize oligonucleotides encoding the desired amino acid sequences. The polypeptides may be isolated from human cells, or from heterologous organisms or cells (including, but not limited to, bacteria, fungi, insect, plant, and mammalian cells) into which an

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appropriate protein-coding sequence has been introduced and expressed. Furthermore, the polypeptides may be part of recombinant fusion proteins.

Peptides and polypeptides may be chemically synthesized by commercially available automated procedures, including, without limitation, exclusive solid phase synthesis, partial solid phase methods, fragment condensation or classical solution synthesis. The polypeptides are preferably prepared by solid phase peptide synthesis as described by Merrifield, 1963, J. Am. Chem. Soc. 85:2149.

Methods for polypeptide purification are well-known in the art, including, without limitation, preparative disc-gel electrophoresis, isoelectric focusing, HPLC, reversed-phase HPLC, gel filtration, ion exchange and partition chromatography, and countercurrent distribution. For some purposes, it is preferable to produce the polypeptide in a recombinant system in which the protein contains an additional sequence tag that facilitates purification, such as, but not limited to, a polyhistidine sequence. The polypeptide can then be purified from a crude lysate of the host cell by chromatography on an appropriate solid-phase matrix. Alternatively, antibodies produced against peptides encoded by genes disclosed herein, can be used as purification reagents. Other purification methods are possible.

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The present invention also encompasses derivatives and homologues of the polypeptides. For some purposes, nucleic acid sequences encoding the peptides may be altered by substitutions, additions, or deletions that provide for functionally equivalent molecules, i.e., function-conservative variants. For example, one or more amino acid residues within the sequence can be substituted by another amino acid of similar properties, such as, for example, positively charged amino acids (arginine, lysine, and histidine); negatively charged amino acids (aspartate and glutamate); polar neutral amino acids; and non-polar amino acids.

The isolated polypeptides may be modified by, for example, phosphorylation, sulfation, acylation, or other protein modifications. They may also be modified with

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a label capable of providing a detectable signal, either directly or indirectly, including, but not limited to, radioisotopes and fluorescent compounds.

The present invention also encompasses antibodies that specifically recognize the polymorphic positions of the invention and distinguish a peptide or polypeptide containing a particular polymorphism from one that contains a different sequence at that position. Such polymorphic position-specific antibodies according to the present invention include polyclonal and monoclonal antibodies. The antibodies may be elicited in an animal host by immunization with peptides encoded by genes disclosed herein or may be formed by in vitro immunization of immune cells. The immunogenic components used to elicit the antibodies may be isolated from human cells or produced in recombinant systems. The antibodies may also be produced in recombinant systems programmed with appropriate antibody-encoding DNA. Alternatively, the antibodies may be constructed by biochemical reconstitution of purified heavy and light chains. The antibodies include hybrid antibodies (i.e., containing two sets of heavy chain/light chain combinations, each of which recognizes a different antigen), chimeric antibodies (i.e., in which either the heavy chains, light chains, or both, are fusion proteins), and univalent antibodies (i.e., comprised of a heavy chain/light chain complex bound to the constant region of a second heavy chain). Also included are Fab fragments, including Fab' and F(ab).sub.2 fragments of antibodies. Methods for the production of all of the above types of antibodies and derivatives are well-known in the art and are discussed in more detail below. For example, techniques for producing and processing polyclonal antisera are disclosed in Mayer and Walker, 1987, Immunochemical Methods in Cell and Molecular Biology, (Academic Press, London). The general methodology for making monoclonal antibodies by hybridomas is well known. Immortal antibodyproducing cell lines can be created by cell fusion, and also by other techniques such as direct transformation of B lymphocytes with oncogenic DNA, or transfection with Epstein-Barr virus. See, e.g., Schreier et al., 1980, Hybridoma Techniques; U.S. Pat. Nos. 4,341,761; 4,399,121; 4,427,783; 4,444,887; 4,466,917; 4,472,500; 4,491,632; and 4,493,890. Panels of monoclonal antibodies produced against peptides encoded

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by genes disclosed herein can be screened for various properties; i.e. for isotype, epitope affinity, etc.

The antibodies of this invention can be purified by standard methods, including but not limited to preparative disc-gel electrophoresis, isoelectric focusing, HPLC, reversed-phase HPLC, gel filtration, ion exchange and partition chromatography, and countercurrent distribution. Purification methods for antibodies are disclosed, e.g., in The Art of Antibody Purification, 1989, Amicon Division, W. R. Grace & Co. General protein purification methods are described in Protein Purification: Principles and Practice, R. K. Scopes, Ed., 1987, Springer-Verlag, New York, N.Y.

Methods for determining the immunogenic capability of the disclosed sequences and the characteristics of the resulting sequence-specific antibodies and immune cells are well-known in the art. For example, antibodies elicited in response to a peptide comprising a particular polymorphic sequence can be tested for their ability to specifically recognize that polymorphic sequence, i.e., to bind differentially to a peptide or polypeptide comprising the polymorphic sequence and thus distinguish it from a similar peptide or polypeptide containing a different sequence at the same position.

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Kits

As set forth herein, the invention provides diagnostic methods, e.g., for determining the identity of the allelic variants of polymorphic regions present in the gene loci of genes disclosed herein, wherein specific allelic variants of the polymorphic region are associated with cardiovascular diseases. In a preferred embodiment, the diagnostic kit can be used to determine whether a subject is at risk of developing a cardiovascular disease. This information could then be used, e.g., to optimize treatment of such individuals.

In preferred embodiments, the kit comprises a probe or primer which is capable of hybridizing to a gene and thereby identifying whether the gene contains an allelic variant of a polymorphic region which is associated with a risk for cardiovascular disease. The kit preferably further comprises instructions for use in diagnosing a subject as having, or having a predisposition, towards developing a cardiovascular disease. The probe or primers of the kit can be any of the probes or primers described in this file.

Preferred kits for amplifying a region of a gene comprising a polymorphic region of interest comprise one, two or more primers.

Antibody-based diagnostic methods and kits:

The invention also provides antibody-based methods for detecting polymorphic patterns in a biological sample. The methods comprise the steps of: (i) contacting a sample with one or more antibody preparations, wherein each of the antibody preparations is specific for a particular polymorphic form of the proteins encoded by genes disclosed herein, under conditions in which a stable antigen-antibody complex can form between the antibody and antigenic components in the sample; and (ii) detecting any antigen-antibody complex formed in step (i) using any suitable means known in the art, wherein the detection of a complex indicates the presence of the particular polymorphic form in the sample.

Typically, immunoassays use either a labelled antibody or a labelled antigenic component (e.g., that competes with the antigen in the sample for binding to the antibody). Suitable labels include without limitation enzyme-based, fluorescent, chemiluminescent, radioactive, or dye molecules. Assays that amplify the signals from the probe are also known, such as, for example, those that utilize biotin and avidin, and enzyme-labelled immunoassays, such as ELISA assays.

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The present invention also provides kits suitable for antibody-based diagnostic applications. Diagnostic kits typically include one or more of the following components:

- 5 (i) Polymorphism-specific antibodies. The antibodies may be pre-labelled; alternatively, the antibody may be unlabelled and the ingredients for labelling may be included in the kit in separate containers, or a secondary, labelled antibody is provided; and
- 10 (ii) Reaction components: The kit may also contain other suitably packaged reagents and materials needed for the particular immunoassay protocol, including solid-phase matrices, if applicable, and standards.

The kits referred to above may include instructions for conducting the test.

Furthermore, in preferred embodiments, the diagnostic kits are adaptable to high-throughput and/or automated operation.

Drug Targets and Screening Methods

- According to the present invention, nucleotide sequences derived from genes disclosed herein and peptide sequences encoded by genes disclosed herein, particularly those that contain one or more polymorphic sequences, comprise useful targets to identify cardiovascular drugs, i.e., compounds that are effective in treating one or more clinical symptoms of cardiovascular disease. Furthermore, especially when a protein is a multimeric protein that are build of two or more subunits, is a combination of different polymorphic subunits very useful.
 - Drug targets include without limitation (i) isolated nucleic acids derived from the genes disclosed herein, and (ii) isolated peptides and polypeptides encoded by genes disclosed herein, each of which comprises one or more polymorphic positions.

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In vitro screening methods:

In one series of embodiments, an isolated nucleic acid comprising one or more polymorphic positions is tested in vitro for its ability to bind test compounds in a sequence-specific manner. The methods comprise:

- (i) providing a first nucleic acid containing a particular sequence at a polymorphic position and a second nucleic acid whose sequence is identical to that of the first nucleic acid except for a different sequence at the same polymorphic position;
- (ii) contacting the nucleic acids with a multiplicity of test compounds under conditions appropriate for binding; and
- 15 (iii) identifying those compounds that bind selectively to either the first or second nucleic acid sequence.

Selective binding as used herein refers to any measurable difference in any parameter of binding, such as, e.g., binding affinity, binding capacity, etc.

In another series of embodiments, an isolated peptide or polypeptide comprising one or more polymorphic positions is tested in vitro for its ability to bind test compounds in a sequence-specific manner. The screening methods involve:

- 25 (i) providing a first peptide or polypeptide containing a particular sequence at a polymorphic position and a second peptide or polypeptide whose sequence is identical to the first peptide or polypeptide except for a different sequence at the same polymorphic position;
- 30 (ii) contacting the polypeptides with a multiplicity of test compounds under conditions appropriate for binding; and

- (iii) identifying those compounds that bind selectively to one of the nucleic acid sequences.
- In preferred embodiments, high-throughput screening protocols are used to survey a large number of test compounds for their ability to bind the genes or peptides disclosed above in a sequence-specific manner.

Test compounds are screened from large libraries of synthetic or natural compounds. Numerous means are currently used for random and directed synthesis of saccharide, peptide, and nucleic acid based compounds. Synthetic compound libraries are commercially available from Maybridge Chemical Co. (Trevillet, Cornwall, UK), Comgenex (Princeton, N.J.), Brandon Associates (Merrimack, N.H.), and Microsource (New Milford, Conn.). A rare chemical library is available from Aldrich (Milwaukee, Wis.). Alternatively, libraries of natural compounds in the form of bacterial, fungal, plant and animal extracts are available from e.g. Pan Laboratories (Bothell, Wash.) or MycoSearch (N.C.), or are readily producible. Additionally, natural and synthetically produced libraries and compounds are readily modified through conventional chemical, physical, and biochemical means.

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In vivo screening methods

Intact cells or whole animals expressing polymorphic variants of genes disclosed herein can be used in screening methods to identify candidate cardiovascular drugs.

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In one series of embodiments, a permanent cell line is established from an individual exhibiting a particular polymorphic pattern. Alternatively, cells (including without limitation mammalian, insect, yeast, or bacterial cells) are programmed to express a gene comprising one or more polymorphic sequences by introduction of appropriate DNA. Identification of candidate compounds can be achieved using any suitable assay, including without limitation (i) assays that measure selective binding of test

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compounds to particular polymorphic variants of proteins encoded by genes disclosed herein; (ii) assays that measure the ability of a test compound to modify (i.e., inhibit or enhance) a measurable activity or function of proteins encoded by genes disclosed herein; and (iii) assays that measure the ability of a compound to modify (i.e., inhibit or enhance) the transcriptional activity of sequences derived from the promoter (i.e., regulatory) regions of genes disclosed herein.

In another series of embodiments, transgenic animals are created in which (i) one or more human genes disclosed herein, having different sequences at particular polymorphic positions are stably inserted into the genome of the transgenic animal; and/or (ii) the endogenous genes disclosed herein are inactivated and replaced with human genes disclosed herein, having different sequences at particular polymorphic positions. See, e.g., Coffman, Semin. Nephrol. 17:404, 1997; Esther et al., Lab. Invest. 74:953, 1996; Murakami et al., Blood Press. Suppl. 2:36, 1996. Such animals can be treated with candidate compounds and monitored for one or more clinical markers of cardiovascular status.

The following are intended as non-limiting examples of the invention.

20 Material and Methods

Genotyping of patient DNA with the PyrosequencingTM Method as described in the patent application WO 9813523:

First a PCR is set up to amplify the flanking regions around a SNP. Therefor 2 ng of genomic DNA (patient sample) are mixed with a primerset (20 – 40 pmol) producing a 75 to 320 bp PCR fragment with 0,3 to 1 U Qiagens Hot Star Taq PolymeraseTM in a total volume of 20 μL. One primer is biotinylated depending on the direction of the sequencing primer. To force the biotinylated primer to be incorporated it is used 0,8 fold.

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For primer design, programms like Oligo 6TM (Molecular Biology Insights) or Primer SelectTM (DNAStar) are used. PCR setup is performed by a BioRobot 3000 TM from Qiagen. PCR takes place in T1 or Tgradient Thermocyclers TM from Biometra.

The whole PCR reaction is transferred into a PSQ plate TM (Pyrosequencing) and prepared using the Sample Prep Tool TM and SNP Reagent Kit TM from Pyrosequencing according to their instructions.

Preparation of template for PyrosequencingTM:

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Sample preparation using PSQ 96 Sample Prep Tool:

- 1. Mount the PSQ 96 Sample Prep Tool Cover onto the PSQ 96 Sample Prep Tool as follows: Place the cover on the desk, retract the 4 attachment rods by separating the handle from the magnetic rod holder, fit the magnetic rods into the holes of the cover plate, push the handle downward until a click is heard. The PSQ 96 Sample Prep Tool is now ready for use.
- 2. To transfer beads from one plate to another, place the covered tool into the PSQ 96 Plate containing the samples and lower the magnetic rods by separating the handle from the magnetic rod holder. Move the tool up and down a few times then wait for 30-60 seconds. Transfer the beads into a new PSQ 96 plate containing the solution of choice.
- 25 3. Release the beads by lifting the magnetic rod holder, bringing it together with the handle. Move the tool up and down a few times to make sure that the beads are released.

All steps are performed at room temperature unless otherwise stated.

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Immobilization of PCR product:

Biotinylated PCR products are immobilized on streptavidin-coated DynabeadsTM M-280 Streptavidin. Parallel immobilization of several samples are performed in the PSQ 96 Plate.

- Mix PCR product, 20 μl of a well optimized PCR, with 25 μl 2X BW-buffer
 II. Add 60-150 μg Dynabeads. It is also possible to add a mix of Dynabeads
 and 2X BW-buffer II to the PCR product yielding a final BW-buffer II
 concentration of approximately 1x.
- Incubate at 65°C for 15 min agitation constantly to keep the beads dispersed.
 For optimal immobilization of fragments longer than 300 bp use 30 min incubation time.

Strand separation:

- 4. For strand separation, use the PSQ 96 Sample Prep Tool to transfer the beads with the immobilized sample to a PSQ 96 Plate containing 50 μ l 0.50 M NaOH per well. Release the beads.
- After approximately 1 min, transfer the beads with the immobilized strand to a PSQ 96 Plate containing 99 μl 1x Annealing buffer per well and mix thoroughly.
- 6. Transfer the beads to a PSQ 96 Plate containing 45 μl of a mix of 1x Annealing buffer and 3-15 pmoles sequencing primer per well.
 - 7. Heat at 80°C for 2 minutes in the PSQ 96 Sample Prep Thermoplate and move to room temperature.
 - 8. After reaching room temperature, continue with the sequencing reaction.

Sequencing reaction:

- Choose the method to be used ("SNP Method") and enter relevant information in the PSO 96 Instrument Control software.
- 5 2. Place the cartridge and PSQ 96 Plate in the PSQ 96 Instrument.
 - 3. Start the run.

Genotyping using the ABI 7700/7900 instrument (TaqMan)

SNP genotypisation using the TaqMan (Applied Biosystems/Perkin Elmer) was performed according to the manufacturer's instructions. The TaqMan assay is discussed by Lee et al., Nucleic Acids Research 1993, 21: 3761-3766.

Genotyping with a service contractor:

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Qiagen Genomics, formerly Rapigene, is a service contractor for genotyping SNPs in patient samples. Their method is based on a primer extension method where two complementary primers are designed for each genotype that are labeled with different tags. Depending on the genotype only one primer will be elongated together with a certain tag. This tag can be detected with mass spectrometry and is a measure for the respective genotype. The method is described in the following patent: "Detection and identification of nucleic acid molecules - using tags which may be detected by non-fluorescent spectrometry or potentiometry" (WO 9727325).

Examples

To exemplify the present invention and it's utility (the imaginary) baySNP 28 will be used in the following:

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The nucleotide polymorphism found for baySNP 28 (e.g. C to T exchange) and the gene in which it presumably resides can be read from table 3. baySNP 28 was genotyped in various patient cohorts using primers as described in table 2. As a result the following number of patients carrying different genotypes were found (information combined from tables 3 and 5a):

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baySNP	Cohort	Total	Genotype 11 "CC"	Genotype 12 "CT"	Genotype 22
28	HELD_FEM_HIRESP	12	1	2	9
28	HELD_FEM_LORESP	22	. 3	12	7

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When comparing the number of female patients exhibiting a high response to statin therapy (HELD_FEM_HIRESP) with the control cohort (HELD_FEM_LORESP) it appears that the number of low responders carrying the CT genotype is increased. This points to a lower statin response among female individuals with the CT genotype. Applying statistical tests on those findings the following p-values were obtained (data taken from table 5b):

BAYSNP	COMPARISON	GTYPE	GTYPE	GTYPE
		CPVAL	XPVAL	LRPVAL
28	HELD_FEM_EFF	0,0506	0,0508	0,0442

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As at least one of the GTYPE p values is below 0,05 the association of genotype and statin response phenotype is regarded as statistically significant. I.e. the analysis of a patient's genotype can predict the response to statin therapy. In more detail one can

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calculate the relative risk to exhibit a certain statin response phenotype when carrying a certain genotype (data taken from table 6a):

BAYSNP	COMPARISON	GTYPE1	GTYPE2	GTYPE3	RR1	RR2	RR3
28	HELD_FEM_EFF	CC	CT	ĬΤ	0,68	0,29	3,38

In case of baySNP 28 the risk to exhibit a high responder phenotype is 3,38 times higher when carrying the TT genotype. This indicates that a TT polymorphism in baySNP 28 is an independent risk factor for high statin response in females. On the other hand carriers of a CT or CC genotype have a reduced risk of being a high responder.

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In addition statistical associations can be calculated on the basis on alleles. This calculation would identify risk alleles instead of risk genotypes.

In case of baySNP 28 the following allele counts were obtained (data combined from tables 3 and 5a):

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baySNP	Cohort	Total	Allele 1	Allele 2
			"C"	"T"
28	HELD_FEM_HIRESP	12	4	20
28	HELD_FEM_LORESP	.22	18	26 .

When comparing the number of female patients with high statin response (HELD_FEM_HIRESP) with the control cohort (HELD_FEM_LORESP) it appears that the number of high responders carrying the T allele is increased, whereas the number of high responders carrying the C allele is diminished. This points to a higher statin response among female individuals with the T allele. Applying statistical tests on those findings the following p-values were obtained (data taken from table 5b):

BAYSNP	COMPARISON	ALLELE	ALLELE	ALLELE
		CPVAL	XPVAL	LRPVAL .
28	HELD_FEM_EFF	0,0411	0,0579	0,0349

As at least one of the ALLELE p values is below 0,05 the association of allele and statin response phenotype is regarded as statistically significant (in this example significant p values were obtained from two statistical tests). I.e. also the analysis of a patient's alleles from baySNP 28 can predict the extend of statin response. In more detail one can calculate the relative risk to exhibit a certain statin response phenotype when carrying a certain allele (data taken from table 6b):

baySNP	Allele 1	Allele 2	COMPARISON	RR1	RR2
28	C	T	HELD_FEM_EFF	0,42	2,39

In case of baySNP 28 the risk to exhibit a high responder phenotype is 2,39 times higher when carrying the T allele. This indicates that the T allele of baySNP28 is an independent risk factor for a high statin response in females. In other words those patients should receive lower doses of statins in order to avoid ADR. However due to their 'high responder' phenotype they will still benefit from the drug. In turn carriers of the C allele should receive higher drug doses in order to experience a benefical therapeutic effect.

Another example is (the imaginary) baySNP 29, which is taken to exemplify polymorphisms relevant for adverse drug reactions. baySNP 29 was found significant when comparing male patients with severe ADR to the respective controls (as defined in table 1b).

The relative risk ratios for the genotypes AA, AG and GG were as follows (data taken from table 6a):

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BAYSNP	COMPARISON	GTYPE1	GTYPE2	GTYPE3	RR1	RR2	RR3
29	HELD_MAL_ADR5ULN	AA	AG	GG	3,15	0,66	0,32

In this case male patients carrying the AA genotype have a 3,15 times higher risk to suffer from ADR. In other words those patients should either receive lower doses of statins or switch to an alternative therapy in order to avoid ADR. On the other hand male patients with AG or GG genotypes appear to be more resistant to ADR and hence better tolerate statin therapy.

As can be seen from the following tables some of the associations that are disclosed in the present invention are indicative for more than one phenotype. Some baySNPs can for example be linked to ADR, but also to the risk to suffer from CVD (table 6).

Sequences

The sequence section contains all phenotype associated ('PA') SNPs and adjacent genomic sequences. The position of the polymorphisms that were used for the association studies ('baySNP') is indicated. Sometimes additional variations are found in the surrounding genomic sequence, that are marked by it's respective IUPAC code. Although those surrounding SNPs were not explicitly analyzed, they likely exihibit a similar association to a phenotype as the baySNP (due to linkage disequillibrium, Reich D.E. et al. Nature 411, 199-204, 2001).

Table 1a Definition of "good" and "bad" serum lipid levels

	"Good"	"Bad"
LDL-Cholesterol [mg/dL]	125 -150	170 - 200
Cholesterol [mg/dL]	190 - 240	265 - 315
HDL-Cholesterol [mg/dL]	60 -105	30 - 55
Triglycerides [mg/dL]	45 - 115	170 – 450

<u>Table 1b</u> Definition of drug response phenotypes

	Decrease of serum LDL of at least 10% and at most 50% upon
-	administration of 0.8 mg Cerivastatin (female patients)
	Decrease of serum LDL of at least 50% upon administration of 0.4 mg Cerivastatin (female patients)
	Decrease of serum LDL of at least 10% and at most 35% upon
responder	administration of 0.8 mg Cerivastatin (female patients)
Very high	Decrease of serum LDL of at least 55% upon administration of
responder	0.4 mg Cerivastatin (female patients)
Ultra low	Decrease of serum LDL of at least 10% and at most 25% upon
responder	administration of 0.8 mg Cerivastatin (female patients)
Ultra high	Decrease of serum LDL of at least 60% upon administration of
responder	0.4 mg Cerivastatin (female patients)
	No diagnosis of muscle cramps, muscle pain, muscle weakness,
	myalgia or myopathy
Tolerant patient	AND
10lotant patient	serum CK levels below 70 mg/dl in women and below 80 mg/dl
	in men.
ADR patient	Diagnosis of muscle cramps, muscle pain, muscle weakness,
(CK increase at	myalgia or myopathy
least 2×ULN)	OR
least ZXOLIN)	serum CK levels higher than 140 mg/dl in women and 160 mg/dl
	in men.
Advanced ADR	in mon
patient [ADR3]	1 1 1 0 0 10 11 1 1 240
(advanced CK	Serum CK levels higher than 210 mg/dl in women and 240 mg/dl
increase, at least	in men
3×ULN)*	
Severe ADR	
patient [ADR5]	
(severe CK	Serum CK levels higher than 350 mg/dl in women and 400 mg/dl
increase, at least	in men
1	
5×ULN)*	

^{*:} When assembling the cohorts for advanced and severe ADR we focused on the CK serum levels as those provide a more independent measure of statin related ADR.

<u>Table 1c</u> Definition of "high" and "low" serum HDL cholesterol levels

	Male	Female
	individuals	individuals
High HDL-Cholesterol [mg/dL]	>=80	>=104
,Low' HDL-Cholesterol [mg/dL]	<=35	<=37

An informed consent was signed by the patients and control people. Blood was taken
by a physician according to medical standard procedures.

Samples were collected anonymous and labeled with a patient number.

DNA was extracted using kits from Qiagen.

<u>Table 2</u> Oligonucleotide primers used for genotyping

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Depending on the method used for genotyping different oligonucleotides were utilized. The table lists the various methods and primer sets that were used for this invention. Primers were designed using suitable programs like Primer Express™ (Applied Biosystems, Darmstadt, Germany) or Oligo™ (Molecular Biology Insights, Inc., Cascade, CO, USA).

Method	No. of oligonucleotides	Type of oligonucletides
Mass Spectrometry	4	2 Primers for preamplification of the genomic fragment, 2 allele specific primers with additional tag sequences for subsequent allele spec. PCR
Pyrosequencing™	3	2 Primers for preamplification of the genomic fragment (one biotinylated), 1 sequencing primer
TaqMan	· 4	2 Primers for amplification of the genomic fragment, 2 allele specific probes carrying different fluorochromes (VIC, FAM) and a quencher. Preferably the allele specific probes have a minor groove binder (MGB) attached (Kutyavin et al., Nucleic Acids Research 2000, 28:655-661).

Table 3 PA SNPs, SNP classes and putative PA genes

those skilled in the art in the Genbank database. The term 'SECONDARY' marks SNPs that do not reside inside the respective gene, but in high/low and ultra high/low drug efficacy (see table 1b). Also accession numbers and descriptions of those gene loci are given that are most homologous to the PA genes as listed in the sequences section (see below). Homologous genes and their accession numbers could be found by Also from the association study we defined SNP classes; with ADR being adverse drug reaction related, with EFF being drug efficacy related and CVD being cardiovascular disease related. ADR3 and ADR5 relate to advanced and severe ADR, whereas VEFF and UEFF relate to very The baySNP number refers to an internal numbering of the PA SNPs. Listed are the different polymorphisms found in our association study. it's proximity. Null: not defined.

Lambristantion Brown	Human T-lymphoma invasion and metastasis inducing TIAM1 protein (TIAM1) mKNA	Human T-lymphoma invasion and metastasis inducing TIAM1 protein (TIAM1) mRNA	Tr for mitochondrial ATP synthase c subunit (P1 form)	risapiens gene tot mitoenement	Human beta adaptin mRNA, complete cds.	H.sapiens dek mRNA	Tr. Statis containing manageveenage (FMO1) mRNA, complete cds.	Human Havin-Containing motions because ()	Human flavin-containing monooxygenase (FMO1) mRNA, complete cds.	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	Homo sapiens 3-nymoxymemyr2-momyrecumyr commens	glutaricaciduria) (HMGCL), mRNA	2 h. d. c. methyl 2 methylelutaryl-Coenzyme A lyase (hydroxymethyl-	Homo sapiens 5-nymonymemy -	glutaricaciduria) (HMGCL), mRNA	2 tradaxx methyl 2 methylohitaryl-Coenzyme A lyase (hydroxymethyl-	Homo sapiens of the month of the many services of the month of the mon	glutaricaciduria) (HMGCL), mRNA	
A MOBILE	13	HS162961	10000	X69907	M34175	X64229	000777	M64082	M64082		***************************************	NM_000191		,0,000	NM_000191		101000	INM_DODING	
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(BA-YSNP)	20	3 8	67	52	57		211	137		/51		179			179			179	

Nobes Middle Company of the Company	Human heat-shock protein HSP70B' gene	Human heat-shock protein HSP70B' gene	Human heat-shock protein HSP70B' gene	H.sapiens SCA1 mRNA for ataxin	Human tumor necrosis factor type 1 receptor associated protein (TRAP1) mRNA, partial cds.	H.sapiens mRNA for DLG2	Human flavin-containing monooxygenase (FMO1) mRNA, complete cds.	Homo sapiens mRNA for smooth muscle myosin heavy chain, partial cds.		Human methylenetetrahydrofolate dehydrogenase- methenyltetrahydrofolate	cyclohydrolase-formyltetrahydrofolate synthetase mRNA, complete cds.	Homo sapiens methionine adenosyltransferase alpha subunit gene fragment.	CATCHIM-TRANSPORTING ATPASB PLASMA MEMBRANB, ISOFORMS 3A/3B (EC	3.6.1.38) (CALCIUM PUMP) (PMCA3).	Trumen weemlar endothelial growth factor gene, exon 1.	יייים יייים אמארמומו אמארמומו אמארמומו פריסיים אייים א	Homo sapiens WNT1 inducible signaling pathway protein 1 (WISP1) gene, promoter and	partial cus.	Homo sapiens (clones lambda gMHC 1,2,3 and 4) beta-myosin heavy chain (MIIII) gene,	complete cds.	Homo sapiens lipoprotein lipase precursor, gene, partial cds.	Human tissue factor gene, complete cds.	DATA for discordative and binase delta, complete cds.	Homo sapiens mixirs to the transfer of the tra	Human protein C inhibitor gene, compacte cus.
	X51757	X51757	X51757	X79204	U12595	X82895	M64082	D10667	M94363		104031	143509		Q16720	1,000,000	M039/1	AF223404		100000	W57965	AF050163	102846		D73409	M64880
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		Human calmodulin mkNA, complete cus.	Human calmodulin mRNA, complete cds.	Human calmodulin mRNA, complete cds.	Human Na,K-ATPase subunit alpha 2 (ATP1A2) gene, complete cds.	Human Na, KATPase subunit alpha 2 (ATP1A2) gene, complete cds.	Human Na, KA TPase subunit alpha 2 (ATP1A2) gene, complete cds.	Human apolipoprotein A-I and C-III genes, complete cds.	Human apolipoprotein A-I and C-III genes, complete cds.	Human apolipoprotein A-I and C-III genes, complete cds.	Human cardiac myosin heavy chain mRNA, 3` end.	Homo sapiens B94 protein mRNA, complete cds.	H.sapiens mRNA for activin beta-C chain	H.sapiens APXL mRNA	H.saniens AP-2 beta gene	H saniens mRNA for chloride channel (putative) 2139bp	rr CDN/7 mBNA for nlatelet glyconrotein VI-3, complete cds.	Homo Sapiens Of Vi mark for the second secon	Homo sapiens GPVI mRNA for platelet glycoprotem VI-5, complete cus.	Homo sapiens GPVI mRNA for platelet glycoprotein VI-3, complete cds.	Homo sapiens GPVI mRNA for platelet glycoprotein VI-3, complete cds.	Homo sapiens GPVI mRNA for platelet glycoprotein VI-3, complete cds.	Home samiens GPVI mRNA for platelet glycoprotein VI-3, complete cds.	LICITIO September 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Honio sapiens GFVI mknA for plateiet glycoprotein 11-1, compress	Human protein C inhibitor gene, complete cas.	
	NCBI	104046	104046	304046	305096	105096	305096	100098	30000£	100098	M17712	M92357	X82540	X83543	V09912	720643	210000	AB043821	AB043821	AB043821	AB043821	AB043821	10043011	AB045021	AB043821	M64880	
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Ŷ		CVD	VEFF	ADR	CVD	ADR3	ADRS	ADR3	CVD	ADR	CAD	GAS	G ₂	1 5	3 6	CAD	CVD	UBEF	EFF	ADR	THE	a diameter	AUK	UBFF	ADR	ADRS	1
	BAYSNP SNR class	1757	1757	1757	1765	1767	1767	1837	1837	1837	1854	1862	2085	2003	502	2109	2124	2140	2140	2140	2170	0417	2141	2141	2141	2186	

	Human protein C inhibitor gene, complete cds.	Human platelet-derived growth factor (PDGF) receptor mRNA, complete cds.	Human platelet-derived growth factor (PDGF) receptor mRNA, complete cds.	Human platelet-derived growth factor (PDGF) receptor mRNA, complete cds.	Human pre-B cell stimulating factor homologue (SDF1b) mRNA, complete cds.	Human leukocyte adhesion protein (LFA-1/Mac-1/p150,95 family) beta subunit mRNA.	H.sapiens mRNA for hepatocyte nuclear factor 4c	Homo sapiens XIIIA gene for coagulation factor XIII A subunit, promoter sequence.	Human coagulation factor IX mRNA, complete cds.	Human vascular endothelial growth factor gene, exon 1.	Human vascular endothelial growth factor gene, exon 1.	Human vascular endothelial growth factor gene, exon 1.	Trumen weemlar endothelial growth factor gene, exon 1.	Illuman vaccum occurred a landon vaccutor I selectin	Homo sapiens mknA for leucocyte adnesion receptor, Lescoche	BETA-MYOSIN HEAVY CHAIN.	Human lipoprotein lipase mRNA, complete cds.	Human plasminogen activator inhibitor 2 (PAI-2) mRNA, complete cds.	TT serious autochrome P450 2E1 (CYP2E1) mRNA, partial cds.	Homo sapiens cycomomo and a company of the company	Human mRNA for lanosterol synthase, complete cus.	Human mRNA for lanosterol synthase, complete cds.	Human muscle glycogen synthase mRNA, complete cds.	times miscle olycopen synthase mRNA, complete cds.	1 CFTR/MRP), member 2	ABCCL: AIF-DIMING Casseins, see seems, see seems, see seems, see seems, see seems, see
DEPENDENT NOBLES	M64880	M21616	M21616	M21616	L36033	M15395	X87872	AB021744	M11309	M63971	M63971	M63971	120001	M03971	AJ246000	Q92679	M15856	M18082	00000	AF084225	D63807	D63807	104501	104601	10400	U49248
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BAYSNP	2187	2192	2192	2192	2203	2217	2281	2284	2290	2327	7327	1969	7257	2327	2353	2371	1	0/67	2401	2463	2755	3776	6/3	2925	2925	3043

, r, , , , , , , , , , , , , , , , , ,	BAYSNP SNP class GTYPE11 GTYPE12 GTYPE22 GENGEIT DESCRIPTION F	AA L31573	VEFF CC CG GG GG L39211 Homo sapiens mitochondrial carnitine palmitoyltransferase I mRNA, complete cds.	ADR5 CC CG null L40027 Homo sapiens glycogen synthase lcinase 3 mRNA, complete cds.	CVD CC CG GG GG LA1162 Homo tapiens collagen alpha 3 type IX (COL9A3) mRNA, complete cds.	TT CT CC L41668	ADR5 CC AC AA BC006394 famesyltransferase) Homo sapiens, COX10 (yeast) homolog, cytochrome c oxidase assembly protein (heme A: famesyltransferase)	 ADR3 CC AC AA BC006394 farnesyltransferase)	012330	CVD AA AT TT U12595 Human fumor necrosis ractor type 1 receptual associated protein (112.7)	UBFF GG GT TT U17195 Homo sapiens A-kinase anchor protein (AKAP100) mkNA, complete cos.	UEFF CC AC AA BC012063 mRNA, complete cds.	+	CVD TT CT CC BC000011 mRNA, complete cds.	ADR3 AA AT TT BC000006 Homo sapiens, ATPase, Na+/K+ transporting, beta 1 polypeptide	AA	44			ADR3 GG AG AA X76228 H.sapiens mkna Ior vacuolar Art Alfaso E sucumi		And AG AA NM 000755 Homo sapiens camitine acetyltransferase (CRAT), nuclear gene encoding mitochondrian
	SNP class G	VEFF	VEFF	ADRS	CVD	ADR	ADRS	 ADR3	CAD CAD	CVD	UEFF	UBEF		G S S	A DR3	an A	And	3	₽ 8	ADR3	ADRS	A DB2

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BAYSIN	100 L	4544			4545	4545	4668	4669	4718	4818	4827	4838	4856	4868	4868	4887	4912	4951	4951	4951	4952	6507

BAYSIN	BAYSINE SINP class	GTYPE11 GTYPE12	GTYPE12	GIAND	NGBI	DESCRIPTION OF THE PROPERTY OF
4966	CVD	99	AG	A.A.	AF133298	Homo sapiens cytochrone P450 (CYP4F8) mRNA, complete cds.
4966	ADR	99	AG	¥¥	AF133298	Homo sapiens cytochrome P450 (CYP4F8) mRNA, complete cds.
5019	CVD	. AA	AT	II	D00510	Homo sapiens mRNA for calphobindin II, complete cds.
5165	ADR3	20	AC	AA	M21574	Human platelet-derived growth factor receptor alpha (PDGFRA) mRNA, complete cds.
5165	ADRS	8	AC	AA	M21574	Human platelet-derived growth factor receptor alpha (PDGFRA) mRNA, complete cds.
5165	ADR	8	AC	ΨΨ	M21574	Human platelet-derived growth factor receptor alpha (PDGFRA) mRNA, complete cds.
5278	ADRS	99	AG	ΑA	D87812	Human mRNA for camitine palmitoy/transferase I, complete cds.
5287	VEFF	9	ಚ	II	J02611	Human apolipoprotein D mRNA, complete cds.
5320	CAD	AA	AG	GG	103799	Human colin carcinoma laminin-binding protein mRNA, complete cds.
5324	VEFF	Ħ	ជ	8	104046	Human calmodulin mRNA, complete cds.
5373	ADRS	gg	GT	ш	L06237	Human microtubule-associated protein 1B (MAP1B) gene, complete cds.
5375	ADRS	8	ರ	Ħ	L06237	Human microtubule-associated protein 1B (MAP1B) gene, complete cds.
5376	ADRS	AA	AT	Ilua	L06237	Human microtubule-associated protein 1B (MAP1B) gene, complete cds.
5377	ADR	III	ರ	8	L06237	Human microtubule-associated protein 1B (MAP1B) gene, complete cds.
5377	ADRS	II	៦	8	L06237	Human microtubule-associated protein 1B (MAP1B) gene, complete cds.
5517	ADR	AA	AG	99	AA609457	PYRUVATE DEHYDROGENASE KINASE.
5518	ADRS	99	93	8	AA609457	PYRUVATE DEHYDROGENASE KINASE.
5564	CAD	gg	GT	Ħ	M14584	Human interleukin 6 mRNA, complete cds.
5569	ADRS	99	AG	ΑΑ	M14745	Human bel-2 mRNA.
7173	A 17 D 2	99	g	8	AL008637	Human DNA sequence from clone CTA-833B7 on chromosome 22q12.3-13.2 Contains the NCF4 gene for cytosolic neutrophil factor 4 (40kD), the 5' part of the CSF2RB gene for
		}	,			granulocyte-macrophage low-affinity colony stimulating factor 2 receptor beta, ESTs, STS
5716	ADRS	GG	ສ	ည	AL008637	Human DNA sequence from clone CTA-833B7 on chromosome 22412.3-13.2 Contains me

	AL008637 AL008637 AL008637 U12789 U49245 NM_000436 NM_003477 NM_003477 NM_003477 X05199 X52011	4 4 4 8 8 8 8 E 8	AG A	5717 ADRS GG AG 5717 ADRS GG AG 5850 CVD GG AG 5959 CVD GG AG 6151 ADR TT CT 6236 ADR TT GT 6277 ADRS TT GT 6277 ADR3 TT GT 6313 UEFF CC CT 6369 CVD TT CT 6369 CVD TT CT	ADRS ADRS ADRS CVD CVD CVD ADRS ADRS CVD
Human CYP2C8 gene for cytochrome P-450, 5' flank and exon 1	X54807	8	5 5	E	SWD CWD
H.sapiens RNA for type VI collagen alpha3 chain	X52022	8	ಟ	TT	ADR3
H.sapiens MYF6 gene encoding a muscle determination factor	X52011	8	ย	E	CAD
Human mRNA for plasminogen	X05199	Ħ	ಶ	පි	UEFF
Homo sapiens Pyruyate denydrogenase complex, upoyronamus complex binding protein (PDX1), mRNA	NM_003477	99	GT	Ħ	ADR3
Homo sapiens Pyruvate dehydrogenase complex, upoyl-containing component x; binding protein (PDX1), mRNA	NM_003477	gg	GT	TI	ADR
Homo sapiens Pyruvate dehydrogenase complex, lipoyl-containing component A, binding protein (PDX1), mRNA	NM_003477	99	GT	Ħ.	ADRS
Homo sapiens 3-oxoacid CoA transferase (UXC1), nuclear gene encoung innounce protein, mRNA	NM_000436	8	ម	Ħ	ADR
Human geranylgeranyl transferase type II beta-subunit mkNA, complete cds.	U49245	ΑA	AC	8	ADR
Human clone HSH1 HMG CoA synthase mRNA, partial cds.	U12789	. AA	AG	gg	CVD
H.sapiens centromere autoantigen C (CENPC) mRNA, complete cds.	M95724	¥¥	AG	gg	CVD
			<u>}</u>	3	<u>}</u>
	AL008637	Ą	AG	99	CA CA CA CA
Human DNA sequence from clone CIA-833B7 on chromosome 22q12.3-13.2 Contains th					
granulocyte-macrophage low-affinity colony stimulating factor 2 receptor beta, ESTs, STS					
	AL008637	Ψ¥	AG	GG	ADRS
Human DNA sequence from clone CTA-833B7 on chromosome 22q12.3-13.2 Contains the					
granulocyte-macrophage low-affinity colony stimulating factor 2 receptor beta, ESTs, STS	٠				
NCF4 gene for cytosolic neutrophil factor 4 (40kD), the 5' part of the CSF2KB gene 101					

Spisserigition	H. sapiens HNF4 mRNA for hepatocyte nuclear factor 4	H.sapiens HNF4 mRNA for hepatocyte nuclear factor 4	H.sapiens HNF4 mRNA for hepatocyte nuclear factor 4	H.sapiens HNF4 mRNA for hepatocyte nuclear factor 4	H.sapiens HNF4 mRNA for hepatocyte nuclear factor 4	H.sapiens HNF4 mRNA for hepatocyte nuclear factor 4	H.sapiens mRNA for ryanodine receptor 2	H.sapiens mRNA for ryanodine receptor 2	H.sapiens mRNA for ryanodine receptor 2	Homo sapiens BAC clone CTA-300C3 from 7q31.2, complete sequence.	Human mRNA for lipoprotein apoCII	Human Na, K-ATPase subunit alpha 2 (ATP1A2) gene, complete cds.	Human Na, K-ATPase subunit alpha 2 (ATP1A2) gene, complete cds.	Human Na,K-ATPase subunit alpha 2 (ATP1A2) gene, complete cds.	Human endozepine (putative ligand of benzodiazepine receptor) mRNA, complete cds.	Human HLA-B-associated transcript 3 (BAT3) mRNA, complete cds.	Human HLA-B-associated transcript 3 (BAT3) mRNA, complete cds.	Homo sapiens BAC clone CTB-60P12 from 7q21, complete sequence.	Homo sapiens caveolin gene, promoter region and partial cds.	ABCB11: ATP-binding cassette, sub-family B (MDR/TAP), member 11	ABCB11: ATP-binding cassette, sub-family B (MDR/TAP), member 11	Homo sapiens ATP cassette binding transporter 1 (ABC1) mRNA, complete cds.	Homo sapiens cytochrome P450 3A4 (CYP3A4) gene, promoter region.	
T. NCBI	X76930	X76930	X76930	X76930	X76930	X76930	X98330	X98330	X98330	AC002543	X00568	J05096	3050g	3050g	M15887	M33519	M33519	AC002457	AF019742	AF091582	AF091582	· AF165281	AF185589	
Grypu22	AA	AA	AA	AA A	AA.	GG	TT	TT	TT	ည	ည	II	TT	II	AA	gg	99	8	AA	AA	AA A	gg	E	
CTYPE12	AG	AG	AG	AG	AG	AG	CI	CT	ฮ	AC	93	ฮ	ţ	נז	AG	AG	AG	ರ	AC	AG	AG	AG	٤	
GTVPE11	GG	99	95	99	99	AA	8	8	႘	AA	GG	8	ပ္ပ	ည	GG	44	AA	TT	8	99	99	AA	ည	
	ADRS	ADR3	ADR	ADR3	ADR	ADR3	ADR3	ADRS	ADR	CVD	ADR	ADR3	ADR5	ADR	1	Sauv	ADR3	C.V.D	CAD	ADR3	ADR	GAD GAD	ADR3	
BAYSNP SNP class	6520	6520	6520	6522	6522	6524	9659	9659	9659	6734	6743	7128	7128	7128	7363	2400	7400	8138	8168	8210	8210	8241	8249	

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SENOR RESERVATION	Homo sapiens cytochrome P450 3A4 (CYP3A4) gene, promoter region.	Human peroxisome proliferator activated receptor gamma 2 mRNA, complete cds.	Human platelet-derived growth factor (PDGF) receptor mRNA, complete cds.	Human platelet-derived growth factor (PDGF) receptor mRNA, complete cds.	Human platelet-derived growth factor (PDGF) receptor mRNA, complete cds.	Human platelet-derived growth factor (PDGF) receptor mRNA, complete cds.	Human microtubule-associated protein 1B (MAP1B) gene, complete cds.	Human microtubule-associated protein 1B (MAP1B) gene, complete cds.	Human microtubule-associated protein 1B (MAP1B) gene, complete cds.	Human pre-B cell stimulating factor homologue (SDF1b) mRNA, complete cds.	Human creatine kinase M mRNA, complete cds.	Homo sapiens lipoprotein lipase precursor, gene, partial cds.	Homo sapiens c-Ibc mRNA for guanine nucleotide exchange factor Lbc, complete cds.	Homo sapiens c-lbc mRNA for guanine nucleotide exchange factor Lbc, complete cds.	Homo sapiens c-lbc mRNA for guanine nucleotide exchange factor Lbc, complete cds.	Homo sapiens A.kinase anchor protein (AKAP100) mRNA, complete cds.	Human CYP2C8 gene for cytochrome P-450, 5' flank and exon 1	Homo sapiens oxidase (cytochrome c) assembly 1-like (OXA1L), mRNA	Homo sapiens muscle glycogen phosphorylase (PYGM) mRNA, complete cds.	Homo sapiens muscle glycogen phosphorylase (PYGM) mRNA, complete cds.	Homo sapiens MSH55 gene, partial cds; and CLIC1, DDAH, G6b, G6c, G5b, G6d, G6c,	G6f, BATS, G5b, CSK2B, BAT4, G4, Apo M, BAT3, BAT2, AIF-1, 1C7, LST-1, LTB,	TNF, and LTA genes, complete ods.
	AF185589	U63415	M21616	M21616	M21616	M21616	L06237	L06237	L06237	L36033	M14780	AF050163	AB055890	AB055890	AB055890	U17195	X54807	NM_005015	AF066859	AF066859		AF129756	
CINE	II	99	8	8	8	AA	TT	TT	TT	8	II	8	ĐĐ ·	8	8	¥¥	Ħ	8	8	8		ĄĄ	
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GIVPE11 GITPE12	8	8	E	Ħ	TIT	GG	8	8	8	GG	8	AA	8	ည	ဗ	99	8	TT	ЭÐ	ÐÐ		99	
SNP class	ADRS	CVD	ADR3	ADR	ADRS	ADR3	ADR	ADR3	ADR5	CVD	ADR3	ADR3	VEFF	ADRS	UEFF	ADRS	Q.S	ADR3	UBFF	VEFF		CVD	
BAXSINB	8249	8480	8577	8577	8577	8278	8653	8653	8653	8816	8931	8943	9243	9243	9243	9523	9940	10001	10541	10541		10600	

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	Human mRNA for Xanthine dehydrogenase, complete cds.	Human mRNA for Xanthine dehydrogenase, complete cds.	Human mRNA for Xanthine dehydrogenase, complete cds.	Human mRNA for apolipoprotein B receptor 2, complete cds.	Homo sapiens mRNA for osteonidogen, complete cds.	Human apolipoprotein B-100 mRNA, complete cds.	Human apolipoprotein B (epsilon-4 allele) gene, complete cds.	Human apolipoprotein B (epsilon-4 allele) gene, complete cds.	Human, intestinal fatty acid binding protein gene, complete cds, and an Alu repetitive element.	com binding mortein gene complete cds, and an Alu repetitive	Human, intestinat tatty actu omunis provint gous, compress element.	Trumm intentinal fathy acid hinding protein gene, complete cds, and an Alu repetitive	element.	Himman intentine 1 fatty acid hinding protein gene, complete cds, and an Alu repetitive	clement,	Himman arid alpha-plucosidase (GAA) mRNA, complete cds.		Humen acid alpha-glucosidase (GAA) mRNA, complete cds.	Human acid alpha-glucosidase (GAA) mRNA, complete cds.	Human acid alpha-glucosidase (GAA) mRNA, complete cds.	Human acid alpha-glucosidase (GAA) mRNA, complete cds.	Himan myoadenvlate deaminase (AMPD1) mRNA, complete cds.	Somplete cds	Homo sapiens protein phosphatase 2C alpha 2 incurs, complete con-
K. NGBI YELL	D11456 H	D11456 H	D11456 H	D50678 H	D86425 F	J02610 E	M10065 E	M10065	M18079		M18079	1	M18079		: M18079	ACANCAL		M34424	M34424	M34424	M34424	T	- I	AF070670
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نسندار د	AG	ដ	8	ರ	AG	AG	g	95	AG		AG		ಕ		ឯ	ļ	3	ß	CT	ដ	j.	5	I)	පි
GTYPE11 GTYPE13	99	E	8	E	AA	99	99	gg	AA		AA		Ħ		Ħ		H	H	E	TT	£	;	ප	GG
SNE class	e S	CVD	CAD	CVD	CAD	GAS	VEFF	EFF	CVD		ADR3		ADR3		ADRS		6 6	ADR3	ADRS	Q ₂	4.002	202	ADR3	CVD
BAYSINP SINP class	10745	10748	10749	10785	10811	10830	10949	10949	10962		10962		10966		10966		11000	11000	11000	11001		17001	11020	11073

INS	SNP class	CTYPEL2 GTYPELL GTYPEL2 G	GTVPEL2	GTWRE22		TYPICAL MENT OF DISCRIPTION OF THE PROPERTY OF
11192	ADRS	II	AT	ΑA	NM_003477	Homo sapiens Pyruvate dehydrogenase complex, lipoyl-containing component X; H3-libing matein (PDX1) mRNA
3	, ,	É	Į.	* *	NPA 003477	Homo sapiens Pyruvate dehydrogenase complex, lipoyl-containing component X; E3-
76111	ADK3	=	I W	¥	//+coo_mini	binding protein (PDX1), mRNA
11248	ADR3	8	ษ	TT	X60435	H.sapiens gene PACAP for pituitary adenylate cyclase activating polypeptide
11248	ADR	8	CI	TT	X60435	H.sapiens gene PACAP for pituitary adenylate cyclase activating polypeptide
11410	VEFF	GG	GT	TT	AC004590	ABCC3: ATP-binding cassette, sub-family C (CFTR/MRP), member 3
11448	CVD	GG	AG	ΑA	AF050163	Homo sapiens lipoprotein lipase precursor, gene, partial cds.
11448	ADR	GG	AG	₩.	AF050163	Homo sapiens lipoprotein lipase precursor, gene, partial cds.
11450	CVD	TI	AT	Ψ¥	AF050163	Homo sapiens lipoprotein lipase precursor, gene, partial cds.
11456	CVD	A.A.	AG	gg	AF051427	Homo sapiens estrogen receptor beta mRNA, complete cds.
11462	CVD	gg	GT	T	AF051427	Homo sapiens estrogen receptor beta mRNA, complete cds.
11483	ADRS	TI	្ជ	8	L19592	Homo sapiens interleukin 8 receptor alpha (IL8RA) gene, complete cds.
11483	ADR3	TI	ਹ	8	L19592	Homo sapiens interleukin 8 receptor alpha (IL8RA) gene, complete cds.
11483	ADR	TIL	ฮ	ខ	L19592	Homo sapiens interleukin 8 receptor alpha (IL8RA) gene, complete eds.
11531	GVD	æ	AG	AA	X52773	Human mRNA for retinoic acid receptor-like protein
						Human DNA sequence from clone 109F14 on chromosome 6p21.2-21.3. Contains the
						alternatively spliced gene for Transcriptional Enhancer Factor TEF-5, the 60S Ribosomal
11536	CAD CAD	8	ව්	၂	AL022721	Protein RPL10A gene, a PUTATIVE ZNF127 LIKE gene, and the PPARD for Peroxisome
						Proliferato
						Human DNA sequence from clone 109F14 on chromosome 6p21.2-21.3. Contains the
11537	ADR	¥¥	AG	gg G	AL022721	alternatively spliced gene for Transcriptional Enhancer Factor TEF-5, the 60S Ribosomal
						Protein RPL10A gene, a PUTATIVE ZNF127 LIKE gene, and the PPARD for Peroxisome

BAYSNP	SNP class	BANSNE SNP class GTYPE11 GTYPE12 6	GTAPE12	Gryppo	Finchi	ANGIN DESCRIBITION
						Proliferator delta
11558	CVD	AA	AC	8	AC006312	Homo sapiens chromosome 9, clone hRPK.401_G_18, complete sequence.
11585	cyj	99	GT.	11	AC073593	Homo sapiens 12 BAC RP11-13112 (Roswell Park Cancer Institute Human BAC Library) complete sequence.
11594	ADR3	TT	CT	8	AF026069	Homo sapiens phosphomevalonate kinase (HUMPMKI) gene, partial cds.
11594	ADR	11	Ŋ	8	AF026069	Homo sapiens phosphomevalonate kinase (HUMPMKI) gene, partial cds.
11614	650	Ħ	៦	8	AF107885	Homo sapiens chromosome 14q24.3 clone BAC270M14 transforming growth factor-beta 3 (TGF-beta 3) gene, complete cds; and unknown genes.
						Human DNA sequence from clone 109F14 on chromosome 6p21.2-21.3. Contains the
11631	ADRS	GG	AG	AA	AL022721	alternatively spliced gene for Transcriptional Enhancer Factor TEF-5, the 60S Ribosomal Protein RPL10A gene, a PUTATIVE ZNF127 LIKE gene, and the PPARD for Peroxisome
						Proliferator delta
						Human DNA sequence from clone 109F14 on chromosome 6p21.2-21.3. Contains the
						alternatively spliced gene for Transcriptional Enhancer Factor TEF-5, the 60S Ribosomal
11631	ADR3	D D	AG	ĄĄ	AL022721	Protein RPL10A gene, a PUTATIVE ZNF127 LIKE gene, and the PPARD for Peroxisome
						Proliferator delta
11637	Q.S	AA	AC	පි	M19154	Human transforming growth factor-beta-2 mRNA, complete cds.
11641	ADR	99	83	8	U12788	Human HMG CoA synthase mRNA, partial cds.
						Human transforming growth factor-beta precursor gene exon 1 and 5 flanking region (and
11645	GAD	99	AG	AA	X05839	joined CDS)
				١	000000	Human transforming growth factor-beta precursor gene exon 1 and 5 flanking region (and
11646	6 	8	ප් 	11	¥03839	joined CDS)
11652	CAD	ဗ	ರ	Ħ	AH002776	Human low density lipoprotein receptor gene
11727	ADRS	99	AG	ΑA	AB043943	Homo sapiens GPVI gene for platelet glycoprotein VI, partial cds.
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11727	ADR3	99	AG	\$	AB043943	Homo sapiens GPVI gene for platelet glycoprotein VI, partial cds.
11728	ADRS	TT	ರ	ဗ	AB043943	Homo sapiens GPVI gene for platelet glycoprotein VI, partial cds.
11914	ADR3	ΑΑ	AT	Ħ	AF030555	Homo sapiens acyl-CoA synthetase 4 (ACS4) mRNA, complete cds.
11938	ADR3	Ħ	ರ	8	AP058921	Homo sapiens cytosolic phospholipase A2-gamma mRNA, complete cds.
11938	ADRS	11	ರ	8	AF058921	Homo sapiens cytosolic phospholipase A2-gamma mRNA, complete cds.
11950	ADRS	99	AG	Ψ¥	AF080222	Homo sapiens thrombin-activable fibrinolysis inhibitor gene, 5'-flanking region.
11950	ADR3	99	AG	AA	AF080222	Homo sapicas thrombin-activable fibrinolysis inhibitor gene, 5'-flanking region.
11950	ADR	GG	AG	Ψ¥	AF080222	Homo sapiens thrombin-activable fibrinolysis inhibitor gene, 5'-flanking region.
11951	ADRS	gg	AG	¥¥	AF080222	Homo sapiens thrombin-activable fibrinolysis inhibitor gene, 5'-flanking region.
11951	UBFF	GG	AG	ΑA	AF080222	Homo sapiens thrombin-activable fibrinolysis inhibitor gene, 5'-flanking region.
	1	5	ŧ	Ilm	A 1707885	Homo sapiens chromosome 14q24.3 clone BAC270M14 transforming growth factor-beta 3
12008	AUK	3	3		680/6174	(TGF-beta 3) gene, complete cds; and unknown genes.
12031	ADR3	AA	AG	99	AF091582	ABCB11: ATP-binding cassette, sub-family B (MDR/TAP), member 11
12031	ADRS	AA	AG	GG	AF091582	ABCB11: ATP-binding cassette, sub-family B (MDR/TAP), member 11
12031	ADR	AA	AG	gg	AF091582	ABCB11: ATP-binding cassette, sub-family B (MDR/TAP), member 11
12032	UEFF	TI	ರ	8	AF091582	ABCB11: ATP-binding cassette, sub-family B (MDR/TAP), member 11
12032	ADR	TI	ರ	8	AF091582	ABCB11: ATP-binding cassette, sub-family B (MDR/TAP), member 11
12032	VBFF	TT	ರ	8	AF091582	ABCB11: ATP-binding cassette, sub-family B (MDR/TAP), member 11
						Human DNA sequence from clone 109F14 on chromosome 6p21.2-21.3. Contains the
			,	•		afternatively spliced gene for Transcriptional Buhancer Factor TEF-5, the 60S Ribosomal
12148	ADRS	ტ ტ	AG	AA A	AL022/21	Protein RPL10A gene, a PUTATIVE ZNF127 LIKE gene, and the PPARD for Peroxisome
12148	ADR	GG	AG	ΑA	AL022721	Human DNA sequence from clone 109F14 on chromosome 6p21.2-21.3. Contains the

CANGER MINISORDATION CONTRACTOR OF CONTRACTO	Human clone HSH1 HMG CoA synthase mRNA, partial cds.	Human clone HSH1 HMG CoA synthase mRNA, partial cds.	Human Xq28 mRNA, complete cds.	Homo sapiens ccr2b (ccr2), ccr2a (ccr2), ccr5 (ccr5) and ccr6 (ccr6) genes, complete cds, and lactoferrin (lactoferrin) gene, partial cds, complete sequence.		H.sapiens mRNA for glycerol kinase testis specific 1.	H.sapiens mRNA for glycerol kinase testis specific 1.	Homo sapiens kallistatin (PI4) gene, exons 1-4, complete cds.	Homo sapiens PAC clone RP5-1131G17 from 7p15.1-p14, complete sequence.	Homo sapiens NADH:ubiquinone oxidoreductase PGIV subunit mRNA, nuclear gene	encoding mitochondrial protein, complete cds.	Homo sapiens NADH:ubiquinone oxidoreductase PDSW subunit mRNA, nuclear gene	encoding mitochondrial protein, complete cds.	Homo sapiens NADH:ubiquinone oxidoreductase PDSW subunit mRNA, nuclear gene	encoding mitochondrial protein, complete cds.	Homo sapiens NADH-ubiquinone oxidoreductase 42 kDa subunit mRNA, complete cds,	nuclear gene encoding mitochondrial protein.	Homo sapiens NADH-ubiquinone oxidoreductase 42 kDa subunit mRNA, complete cds,	nuclear gene encoding mitochondrial protein.					
See GB1	U12789	. U12789	U46023	U46023	U46023	U46023	U46023	1105505	070060	HSGKTS1	HSGKTSI	L28101	AC006022		AF044953		AF044954		AF044954		AF087661		AF087661	
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SNP class	ADR3	ADRS	URFF	VEFF	ADR	CVD	VEFF		UEFF		ADR	ADRS	ADRS		ADR		EFF		BFF		ADRS		BFF	
BAYSINE	13193	13193	.13338	13338	13339	13339	13340		13479		13633	13929	14065		14083		14085		14087		14102		14102	

BAYSNP	SNP class	BANSINP SINP class GTYPEIL GTYPEIL	GTVPE12	GTYPESS	NOR	GTYPB22 PRINGHE MINSCHEPHON'N AND AND AND AND AND AND AND AND AND AN
17163	222	٤	Ę	Į.	A E087661	Homo sapiens NADH-ubiquinone oxidoreductase 42 kDa subunit mRNA, complete cds,
14103	443 —	3	3	7 .	AE00/001	nuclear gene encoding mitochondrial protein.
		8	Ę	E	. 13350004	Homo sapiens NADH-ubiquinone oxidoreductase 42 kDa subunit mRNA, complete cds,
14103	VEFF	ყ	3	:	AFU8/001	nuclear gene encoding mitochondrial protein.
		3	Į	E	120021	Homo sapiens NADH-ubiquinone oxidoreductase 42 kDa subunit mRNA, complete cds,
14103	UBFF	8	3	I	AF08/601	nuclear gene encoding mitochondrial protein.
			Š		2000000	Homo sapiens, Rab geranylgeranyltransferase, alpha subunit, clone MGC:1485
14129	ADR3	¥	AG		BC003093	IMAGE:3537388, mRNA, complete cds.
14326	BFF	AA.	AC	႘	NM_005390	Homo sapiens pyruvate dehydrogenase (lipoamide) alpha 2 (PDHA2), mRNA
14503	ADRS	8	ជ	ŦŦ	AJ276178	Homo sapiens partial ZNF202 gene for zinc finger protein homolog, exon 2
14503	ADR3	8	ರ	Ħ	AJ276178	Homo sapiens partial ZNF202 gene for zinc finger protein homolog, exon 2
14537	ADR	8	៦	III	U22526	Human 2,3-oxidosqualene-lanosterol cyclase mRNA, complete cds.
15915	ADR	TT	ជ	ខ	L32179	Human arylacetamide deacetylase mRNA, complete eds.
15915	ADR3	TT	្រ	ខ	L32179	Human arylacetamide deacetylase mRNA, complete cds.
19289	CAD	99	AG	AA	AL031651	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamylttansferase) (TGM2)
36958	ADR3	8	90	99	AF050163	Homo sapiens lipoprotein lipase precursor, gene, partial cds.
37158	ADR	8	AC	AA	D63807	Human mRNA for lanosterol synthase, complete cds.
37160	UEFF	8	נז	TI	D63807	Human mRNA for lanosterol synthase, complete cds.
37412	ADR5	TT	GI	99	M74775	Human lysosomal acid lipase/cholesteryl esterase mRNA, complete cds.
37412	ADR3	Ħ	GT	GG	M74775	Human lysosomal acid lipase/cholesteryl esterase mRNA, complete cds.
					054042	NDUFVI=NADH:ubiquinone oxidoreductase flavoprotein 1 subunit [human, kidney,
37457	9 25	Ħ	ΑI	¥	616100	mRNA Partial, 771 nt].
37704	ADRS	8	5	llun	XM_010049	Homo sapiens peroxisome proliferative activated receptor, alpha (PPARA), mRNA.

55748 55748 55845 55845 55923 55945 55945	55748 ADRS 55813 ADR3 55845 VEFF 55845 ADR3 55923 ADR3 55945 ADR3 55945 ADR3 55945 ADR3	CC	TT CT TT CT CC AC CC AC CC AC CC AC TT CT TT CT TT CT TT CT TT CT TT CT		SECONDARY: M23234 SECONDARY: M34551 SECONDARY: M34551 SECONDARY: M34551 SECONDARY: M34551 SECONDARY: M35724 SECONDARY: M95724	SECONDARY: SECONDARY: SECONDARY TO ABCB4 M34551 SECONDARY TO Human 52-kD ribonucleoprotein Ro/SSA mRNA, complete cds. M34551 SECONDARY: SECONDARY TO Human 52-kD ribonucleoprotein Ro/SSA mRNA, complete cds. M34551 SECONDARY: SECONDARY TO Human 52-kD ribonucleoprotein Ro/SSA mRNA, complete cds. M34551 SECONDARY: SECONDARY TO Human 52-kD ribonucleoprotein Ro/SSA mRNA, complete cds. M34551 SECONDARY: SECONDARY: SECONDARY TO Human 52-kD ribonucleoprotein Ro/SSA mRNA, complete cds. M34551 TT M95724 SECONDARY TO Hisapiens centromere autoantigen C (CENPC) mRNA, complete cds. M35724 SECONDARY TO Hisapiens centromere autoantigen C (CENPC) mRNA, complete cds. M35724 SECONDARY TO Hisapiens centromere autoantigen C (CENPC) mRNA, complete cds. M35724 SECONDARY TO Hisapiens centromere autoantigen C (CENPC) mRNA, complete cds. M35724 SECONDARY TO Hisapiens centromere autoantigen C (CENPC) mRNA, complete cds. M35724 SECONDARY TO Hisapiens centromere autoantigen C (CENPC) mRNA, complete cds. M35724 SECONDARY TO Hisapiens centromere autoantigen C (CENPC) mRNA, complete cds. M35724 SECONDARY TO Hisapiens centromere autoantigen C (CENPC) mRNA, complete cds. M35724 SECONDARY TO Hisapiens centromere autoantigen C (CENPC) mRNA, complete cds. M35724 SECONDARY TO Hisapiens centromere autoantigen C (CENPC) mRNA, complete cds. M35724 SECONDARY TO Hisapiens centromere autoantigen C (CENPC) mRNA, complete cds. M35724 SECONDARY TO Hisapiens centromere autoantigen C (CENPC) mRNA, complete cds. M35724 SECONDARY TO Hisapiens centromere autoantigen C (CENPC) mRNA, complete cds. M35724 SECONDARY TO Hisapiens centromere autoantigen C (CENPC) mRNA, complete cds. M35724 SECONDARY TO Hisapiens centromere autoantigen C (CENPC) mRNA, complete cds. M35724 SECONDARY TO Hisapiens centromere autoantigen C (CENPC) mRNA, complete cds. M35724 SECONDARY TO Hisapiens centromere autoantigen C (CENPC) mRNA, complete cds. M35724 SECONDARY TO Hisapiens centromere autoantigen C (CENPC) mRNA, complete cds.
56007	ADR5	II	ម	8	SECONDARY: NM_001303	SECONDARY TO Homo sapiens COX10 homolog, cytochrome c oxidase assembly protein, heme A: farnesyltransferase (yeast) (COX10), nuclear gene encoding mitochondrial protein, mRNA

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56011	ADRS	₹	AG	Ilun	SECONDARY:	SECONDARY TO Homo sapiens COX10 homolog, cytochrome c oxidase assembly protein, home A: famesyltransferase (yeast) (COX10), nuclear gene encoding mitochondrial
					Tru Conto	
56104	UEFF	ÐÐ	AG	Ψ¥	SECONDARY: AF091582	SECONDARY TO ABCB11
56113	ADRS	ЭÐ	GT	II	SECONDARY: AF091582	SECONDARY TO ABCB11
	3		ŧ	Ę	SECONDARY:	SECONDARY TO A BCB11
56113	ADK3	3	5	11	AF091582	
	1			٤	SECONDARY:	SECONDARY TO Homo sapiens beta-galactoside alpha-2,3-sialyltransferase (SIAT4A)
56636	ADR.	11	5	3 .	L13972	mRNA, complete cds.
				3	SECONDARY:	SECONDARY TO Homo sapiens beta-galactoside alpha-2,3-sialyltransferase (SIAT4A)
26636	ADR3	ļ.	ฮ	3	L13972	mRNA, complete cds.
					SECONDARY:	SECONDARY TO Homo sapiens beta-galactoside alpha-2,3-sialyltransferase (SIAT4A)
56636	ADRS	Ħ	ප් 	3	L13972	mRNA, complete cds.
				:	SECONDARY:	SECONDARY: SECONDARY TO Homo sapiens muscle-specific serine kinase 1 (MSSK1) mRNA,
26666	ADR3	ф Ф	AG	¥	AF027406	complete cds.
				:	SECONDARY:	SECONDARY: SECONDARY TO Homo sapiens muscle-specific serine kinase 1 (MSSK1) mRNA,
26666	ADRS	ტ ტ	AG	¥¥	AF027406	complete cds.
				:	SECONDARY:	SECONDARY: SECONDARY TO Homo sapiens muscle-specific serine kinase 1 (MSSK1) mRNA,
26666	ADR	В	A G	¥	AF027406	complete cds.
29995	BFF	II	ರ	8	AF027406	Homo sapiens muscle-specific serine kinase 1 (MSSK1) mRNA, complete cds.
56667	. ADR3	TT	ਰਿ	8	AF027406	Homo sapiens muscle-specific serine kinase 1 (MSSK1) mRNA, complete cds.
56780	ADR3	99	AG	ΑA	SECONDARY:	SECONDARY: SECONDARY TO Homo sapiens, ATPase, Na+/K+ transporting, beta 1 polypeptide

BAYSNP SNR class GTYPE11 GTYPE12 GTWDD22 CONTRIBUTE DESCRIPTION CONTRIBUTED OF CO		SECONDARY TO Homo sapiens, ATPase, Na+/K+ transporting, beta 1 polypeptide	SECONDARY TO Homo sapiens muscle glycogen phosphorylase (PYGM) mRNA,	complete cds.	SECONDARY TO Homo sapiens muscle glycogen phosphorylase (PYGM) mRNA,	complete cds.	SECONDARY TO Homo sapiens muscle glycogen phosphorylase (PYGM) mRNA,	complete cds.	SECONDARY TO Human mRNA for Xanthine dehydrogenase, complete cds.	SECONDARY TO Human mRNA for Xanthine dehydrogenase, complete cds.	SECONDARY TO Human mRNA for Xanthine dehydrogenase, complete cds.	SECONDARY TO Human mRNA for Xanthine dehydrogenase, complete cds.	SECONDARY TO Homo sapiens TSC2, NTHLI/NTH1 and SLC9A3R2/E3KARP genes,	partial and complete cds.	SECONDARY TO Human DNA sequence from clone 109F14 on chromosome 6p21.2-21.3.	Contains the alternatively spliced gene for Transcriptional Enhancer Factor TEF-5, the 60S	Ribosomal Protein RPL10A gene, a PUTATIVE ZNF127 LIKE gene, and the PPARD for	Peroxisome Proliferator delta	SECONDARY: SECONDARY TO Homo sapiens GPVI gene for platelet glycoprotein VI, partial cds.
Noning	BC000006	SECONDARY: BC000006	SECONDARY:	AF066859	SECONDARY:	AF066859	SECONDARY:	AF066859	SECONDARY: D11456	SECONDARY: D11456	SECONDARY: D11456	SECONDARY: D11456	SECONDARY:	AB014460		SECONDARY:	AL022721		SECONDARY:
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SINP class		ADR		OEFF	1	44 <u>1</u>		VEFF	ADRS	VEFF	UBFF	Q.S.		UBEFF			ADR3		ADR3
BAYSNP		56780	70077	0/800	2002	208/0	20072	0/800	\$6978	57000	57000	27000		57313			57734		57837

A BOA3043		SECONDARY TO Homo sapiens GPVI gene for platelet glycoprotein V1, parual cus.	SECONDARY TO Homo sapiens GPVI gene for platelet glycoprotein VI, partial cds.		SECONDARY TO Homo sapiens GPVI gene for platelet glycoprotein VI, partial cds.	SPCONDARY TO Home saniens GPVI gene for platelet glycoprotein VI, partial cds.		SECONDARY TO Homo sapiens GPVI gene for platelet glycoprotein VI, partial cds.		SPCONDARY TO Home saniens GPVI gene for platelet glycoprotein VI, partial cds.		SECONDARY TO H saniens mRNA for 3-hydroxy-3-methylglutaryl coenzyme A synthase		SECONDARY TO Human Xq28 mRNA, complete cds.		and the transport of the complete cds.		SECOND ARV TO Himen Xo28 mRNA, complete cds.		SECONDARY TO Human Xq28 mRNA, complete cds.		SECONDARY TO Homo sapiens putative N6-DNA-methyltransferase (N6AMT1), mRNA	
A BOA3043	SECONDARY:	AB043943	SECONDARY:	AB043943	SECONDARY: AB043943	SECONDARY:	AB043943	SECONDARY:	AB043943	SECONDARY:	AB043943	SECONDARY:	X83618	SECONDARY:	U46023	SECONDARY:	U46023	SECONDARY:	U46023	SECONDARY:	U46023	SECONDARY:	
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SINF class		BFF	मसप्ता ।		VEFF		품		1440		ADR3		ADR		ADK		VBFF		UEFF		UEFF	ADR	
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NGBL N. DESCRIPTION NM_013240	ARY: SECONDARY TO Homo sapiens putative N6-DNA-methyltransferase (N6AMT1), mRNA 3240	ARY: SECONDARY TO Homo sapiens putative N6-DNA-methyltransferase (N6AMT1), mRNA	ARY: SECONDARY TO Homo sapiens putative N6-DNA-methyltransferase (N6AMT1), mRNA 3240	4RY: SECONDARY TO Homo sapiens putative N6-DNA-methyltransferase (N6AMT1), mRNA (240	4RY: SECONDARY TO Homo sapiens putative N6-DNA-methyltransferase (N6AMT1), mRNA	ARY: SECONDARY TO Homo sapiens putative N6-DNA-methyltransferase (N6AMT1), mRNA	ARY: SECONDARY TO Homo sapiens, NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 172 6 (14½D, B14), clone MGC:3686 IMAGE:3619356, mRNA, complete cds.		4RY: SECONDARY TO Homo sapiens, NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 772 6 (14kD, B14), clone MGC:3686 IMAGE:3619356, mRNA, complete cds.	ARY: SECONDARY TO nuclear hormone receptor PRR2	ARY: SECONDARY TO nuclear hormone receptor PRR2	SECONDARY: SECONDARY TO nuclear hormone receptor PRR2
NGBI NM_013240	SECONDARY: NM_013240	SECONDARY: NM_013240	SECONDARY: NM_013240	SECONDARY: NM_013240	SECONDARY: NM_013240	SECONDARY: NM_013240	SECONDARY: BC002772	SECONDARY: BC002772	SECONDARY: BC002772	SECONDARY:	SECONDARY:	AUNOCHR
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BAYSNE SNP dass. GTTPE11	ADR3	ADR5	ADR	ADR3	ADRS	ADRS	ADR3	ADRS	EFF	ADR	ADRS	A DR3
BAYSNR	58525	58525	. 58533	58533	58533	58544	58716	58716	58736	58808	58809	58800

PAREZ AND		SECONDARY TO nuclear hormone receptor PRR2	SECONDARY TO Human DINA sequence from clone CIA-833B7 on chromosome	SECONDARY: 22q12.3-13.2 Contains the NCF4 gene for cytosolic neutrophil factor 4 (40kD), the 5' part	of the CSF2RB gene for granulocyte-macrophage low-affinity colony stimulating factor 2	receptor beta	SECONDARY TO Human DNA sequence from clone CIA-833B7 on chromosome	22q12.3-13.2 Contains the NCF4 gene for cytosolic neutrophil factor 4 (40kD), the 5' part	of the CSF2RB gene for granulocyte-macrophage low-affinity colony stimulating factor 2	receptor beta	SECONDARY TO Home sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds.	SECONDARY TO Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds.	SECONDARY TO Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds.	SECONDARY TO Home sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds.		SECONDARY TO Homo sapions ADP/ATP carrier protein (ANT-2) gene, complete cds.	SECONDARY TO Home sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds.		SECONDARY: SECONDARY TO Homo sapiens acyl-CoA synthetase 4 (ACS4) mRNA, complete cds.
NOR	NM_003889	SECONDARY:		SECONDARY:	AL008637			SECONDARY:	AL008637		SECONDARY: L78810	SECONDARY: L78810	SECONDARY: L78810	SECONDARY:	L78810	SECONDARY: L78810	SECONDARY:	L78810	SECONDARY:
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					AF030555	
59113	ADR3	သ	ĐO	GG	SECONDARY: AF030555	SECONDARY TO Homo sapiens acyl-CoA synthetase 4 (ACS4) mRNA, complete cds.
59236	ADR	55	ტ ₹	AA	SECONDARY:	SECONDARY TO Homo sapiens lanosterol synthase (2,3-oxidosqualene-lanosterol
		3	2	§	NM_002340	cyclase) (LSS), mRNA
59236	ADR3	99	0 ₹	V V	SECONDARY:	SECONDARY TO Homo sapiens lanosterol synthase (2,3-oxidosqualene-lanosterol
		3	2	\$	NM_002340	cyclase) (LSS), mRNA
59237	VEER	ر	٤	Ę	SECONDARY:	SECONDARY TO Homo sapiens lanosterol synthase (2,3-oxidosqualene-lanosterol
	-	}	5	1	NM_002340	cyclase) (LSS), mRNA
50737	HEE	J	£	£	SECONDARY:	SECONDARY TO Homo sapiens lanosterol synthase (2,3-oxidosqualene-lanosterol
10200	1.17	3		1	NM_002340	NM_002340 cyclase) (LSS), mRNA
29267	वनमा	Ė	Ę	٤	SECONDARY:	SECONDARY: SECONDARY TO Homo sapiens lanosterol synthase (2,3-oxidosqualene-lanosterol
0300	1 200	:	 3	}	NM_002340	cyclase) (LSS), mRNA
40247	מתי	Ę	ŧ		SECONDARY:	SECONDARY: SECONDARY TO Homo sapiens transcription factor IID mRNA, complete cds.
70060	¥ T	1	 J	3.	M34960	
50363	5	Ē	٤	٠. ٢	SECONDARY:	
		1	3	}	M34960	SECONDARY TO HOMO Suplems transcription ractor III) mixing, complete cds.
89205	מעיץ.	Ę	Ę	٤	SECONDARY:	
9000	Ž.	7		3	M34960	SECONDARY 10 from Sapiens transcription ractor III) mknA, complete cds.
50371	VAREE	٤	ŧ	E E	SECONDARY:	DECOND A BUT TO HAME AND THE STATE OF THE ST
1,555	T TOTA	3	;	1	M34960	SECONDARY TO HOMO Sapiens transcription ractor and menny, complete cds.
59371	UEFF	8	D D	TT	SECONDARY: M34960	SECONDARY TO Homo sapiens transcription factor IID mRNA, complete cds.
59372	:ADR	8	ដ	TT	SECONDARY:	SECONDARY TO Homo sapiens transcription factor IID mRNA, complete cds.

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Programme and the second of th		SECONDARY TO Homo sapiens transcription factor IID mRNA, complete cds.	SECONDARY TO Human glycogen debranching enzyme isoform 1 (AGL) mRNA,	alternatively spliced isoform, complete cds.	Homo sapiens putative N6-DNA-methyltransferase (N6AMT1), mRNA	Homo sapiens putative N6-DNA-methyltransferase (N6AMT1), mRNA	nuclear hormone receptor PRR2	Homo sapiens lipoprotein lipase precursor, gene, partial cds.	MTM1: myotubular myopathy 1	MTMR2: myotubularin related protein 2	MTMR2: myotubularin related protein 2	MTMR2: myotubularin related protein 2	SLC24A3: solute carrier family 24 (sodium/potassium/calcium exchanger), member 3	Selenoprotein P genomic region	Selenoprotein P genomic region	Selenoprotein P genomic region						
TE WORL	M34960	SECONDARY: M34960	SECONDARY:	U84007	NM_013240	NM_013240	NM_003889	NM_003889	NM_003889	NM_003889	AF050163	U46024	U46024	U46024	U46024	U58033	U58033	U58033	AF169257	AC008945	AC008945	AC008945
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BAXSNP		59372	50443	39443	080006	080006	900102	900102	900111	900111	900117	900118	900118	900118	900120	900121	900123	900124	900132	900144	900144	900145

NOBEL DESCRIBITION	1 89	Selenoprotein P genomic region	SHGC-140326 Human Homo sapiens STS genomic, sequence tagged site.	SHGC-140326 Human Homo sapiens STS genomic, sequence tagged site.	Human Homo sapiens genomic clone pTWB28.01, DNA sequence.	N-Acetyltransferase Camello 2	N-Acetyltransferase Camello 2	N-Acetyltransferase Camello 2	HS cDNA FLJ30564 fis	Horno sapiens partial mRNA; ID ED166-4A2	Horno sapiens partial mRNA; ID ED166-4A2	SECONDARY TO Homo sapiens mRNA for Cdc42-interacting protein 4 (CIP4)	SECONDARY TO Homo sapiens mRNA for Cdc42-interacting protein 4 (CIP4)	SECONDARY TO Homo sapiens mRNA for Cdc42-interacting protein 4 (CIP4)	SECONDARY TO Homo sapiens mRNA for Cdc42-interacting protein 4 (CIP4)	SECONDARY: SECONDARY TO Homo sapiens mRNA for Cdc42-interacting protein 4 (CIP4)			
	AC008945	AC008945	AC008945	AC008945	AC008945	G62788	G62788	AF101918	NM_016347	NM_016347	NM_016347	AK055126	AJ227891	AJ227891	SECONDARY: AJ000414	SECONDARY: AJ000414	SECONDARY: AJ000414	SECONDARY: AJ000414	SECONDARY:
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BAYSNP	900145	900146	900146	900146	900147	961006	900196	900200	900204	900205	900205	900223	900225	900225	900227	900233	900236	900236	900241

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Table 4 Cohorts

Given are names (as used in table 5) and formations of the various cohorts that were used for genotyping

COHORT	Definition
HELD_ALL_GOOD/BAD	Healthy elderly individuals of both genders with good or bad serum lipid profiles (as defined in table 1a)
HELD_FEM_GOOD/BAD	Healthy elderly individuals (female) with good or bad serum lipid profiles (as defined in table 1a)
HELD_MAL_GOOD/BAD	Healthy elderly individuals (male) with good or bad serum lipid profiles (as defined in table 1a)
CVD_ALL_CASE/CTRL	Individuals with diagnosis of cardiovascular disease and healthy controls (both genders)
CVD_FEM_CASE/CTRL	Individuals with diagnosis of cardiovascular disease and healthy controls (female)
CVD_MAL_CASE/CTRL	Individuals with diagnosis of cardiovascular disease and healthy controls (male)
HELD_FEM_ADRCTRL	Female individuals that tolerate adminstration of cerivastatin without exhibiting signs of ADR (as defined in table 1b)
HELD_FEM_ADRCASE	Female individuals that exhibited ADR (as defined in table 1b) upon administration of cerivastatin
HELD_MAL_ADRCTRL	Male individuals that tolerate adminstration of cerivastatin without exhibiting signs of ADR (as defined in table 1b)
HELD_MAL_ADRCASE	Male individuals that exhibited ADR (as defined in table 1b) upon administration of cerivastatin
HELD_ALL_ADRCTRL	Individuals of both genders that tolerate adminstration of cerivastatin without exhibiting signs of ADR (as defined in table 1b)
HELD_ALL_ADRCASE	Individuals of both genders that exhibited ADR (as defined in table 1b) upon administration of cerivastatin
HELD_FEM_LORESP	Female individuals with a minor response to cerivastatin administration (as defined in table 1b)
HELD_FEM_HIRESP	Female individuals with a high response to to cerivastatin administration (as defined in table 1b)
HELD_FEM_HIHDL/LOHDL	Healthy elderly individuals (female) with high or low serum HDL cholesterol levels (as defined in table 1c)
HELD_MAL_HIHDL/LOHDL	Healthy elderly individuals (male) with high or low serum HDL cholesterol levels (as defined in table 1c)
HELD_ALL_HIHDL/LOHDL	Healthy elderly individuals of both genders with high or low serum HDL cholesterol levels (as defined in table 1c)
HELD_FEM_ADR3CASE	Female individuals that exhibited advanced ADR (as defined in table 1b) upon administration of cerivastatin

COHORT	Definition
HELD_MAL_ADR3CASE	Male individuals that exhibited advanced ADR (as defined in table 1b) upon administration of cerivastatin
HELD_ALL_ADR3CASE	Individuals of both genders that exhibited advanced ADR (as defined in table 1b) upon administration of cerivastatin
HELD_FEM_VLORESP	Female individuals with a very low response to cerivastatin administration (as defined in table 1b)
HELD_FEM_VHIRESP	Female individuals with a very high response to cerivastatin administration (as defined in table 1b)
HELD_FEM_ADR5CASE	Female individuals that exhibited severe ADR (as defined in table 1b) upon administration of cerivastatin
HELD_MAL_ADR5CASE	Male individuals that exhibited severe ADR (as defined in table 1b) upon administration of cerivastatin
HELD_ALL_ADR5CASE	Individuals of both genders that exhibited severe ADR (as defined in table 1b) upon administration of cerivastatin
HELD_FEM_ULORESP	Female individuals with a ultra low response to cerivastatin administration (as defined in table 1b)
HELD_FEM_UHIRESP	Female individuals with a ultra high response to to cerivastatin administration (as defined in table 1b)

Table 5a and 5b Cohort sizes and p-values of PA SNPs

The baySNP number refers to an internal numbering of the PA SNPs. Cpval denotes the classical Pearson chi-squared test, Xpval denotes the Interscience 1993), and (A. Agresti, Statistical Science 7, 131 (1992)). The GTYPE and Allele p values were obtained through the respective exact version of Pearson's chi-squared test, LRpval denotes the likelihood-ratio chi-squared test,. Cpvalue, Xpvalue, and LRpvalue are 22 B; genotypes as defined in table 3) resulting in the respective chi square test with a 3×2 matrix. For Allele p values we compared the allele calculated as described in (SAS/STAT User's Guide of the SAS OnlineDoc, Version 8), (L. D. Fisher and G. van Belle, Biostatistics, Wiley chi square tests when comparing COHORTs A and B. For GTYPE p value the number of patients in cohort A carrying genotypes 11, 12 or 22 (FQ11 A, FQ 12 A, FQ 22 A; genotypes as defined in table 3) were compared with the respective patients in cohort B (FQ11 B, FQ 12 B, FQ count of alleles 1 and 2 (A1 and A2) in cohorts A and B, respectively (chi square test with a 2×2 matrix). SIZE A and B: Number of patients in cohorts A and B, respectively. See table 4 for definition of COHORTs A and B.

 Table 5a
 Cohort sizes and frequency of alleles and genotypes

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42	55	61	13	6	∞
19	35	29	22	10	11
9/	137	109	21	21	14
80	125	119	57	29	30
7.8	131	114	39	25	22
HELD_FEM_GOOD	HELD_ALL_ADRCTRL	HELD_ALL_GOOD	HBLD_ALL_CTRL	HELD_MAL_HIHDL	HELD_FEM_CTRL
12	14	16	12	1	_∞
36	12	4	20	14	15
32	17	68	11	3	9
99	40	92	44	16	31
100	. 24	122	42	20	27
80	47	66 -	43	18	29 .
HBLD_FEM_BAD	HELD_ALL_ADRCASE3ULN	HELD_ALL_BAD	HELD_ALL_CASE	HELD_MAL_LOHDL	HELD_FEM_CASB
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29	59	29	52	52	52 C G
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SEZE FOLFB	27	317	41	512	71	151	151	26	26	219	219	224	102	196	196	98	119	11	17	129	125
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RQIB	12	154	47	0	19	78	55	86	39	93	59	113	82	44	158	52	55	83	37	37	104
B. R.	115	62	33	26	64	18	35	ß	22	74	20	78	59	56	112	39	34	53	33	33	56
TO COHORT BULL	1	HELD_FEM_GOOD	CVD_MAL_CTRL	HBLD_MAL_HIHDL	HELD_ALL_CTRL	HELD_MAL_CTRL	HELD_MAL_GOOD	CVD_ALL_CTRL	HELD FEM CTRL	CVD_ALL_CTRL	HELD_ALL_HIHDL	HELD_FEM_GOOD	HELD_MAL_ADRCTRL	HELD_MAL_CTRL2	HELD_ALL_GOOD	HELD_ALL_CTRL	CVD_MAL_CTRL	HELD_MAL_ADRCTRL	HELD_FEM_LORESP	CVD_MAL_CTRL	HELD_MAL_ADRCTRL
F02%	0	0	0	5	∞	7	∞	23	-	27	4	12	2	4	0	-	3	0	5	15	1
F0.12	0	0	16	0	15	0	-	07	15	48	6	34	0	24	4	14	13	7	7	1.7	2
HOII A	5 8	.81	52	15	21	9	10	53	15	29	21	32	9	16	55	29	53	14	11	31	9
V CO T	0	0	16	10	31	14	17	99	17	102	17	58	4	32	41	16	61	2	17	47	4
	200	162	120	30	57	12	21	126	45	106	51	88	12	99	151	72	119	30	29	62	14
TA THE	100	81	89	20	4	13	19	96	31	104	34	78	∞	4	96	44	69	16	23	63	6
V LACHOO	TIV GIEH	HELD_FEM_BAD	CVD_MAL_CASE	HELD_MAL_LOHDL	HELD_ALL_CASE	HBLD_MAL_CASE	HELD_MAL_BAD	CVD_ALL_CASE	HELD_FEM_CASE	CVD_ALL_CASE	HELD_ALL_LOHDL	HELD_FEM_BAD	HELD_MAL_ADRCASESULN	HELD_MAL_CASE2	HELD_ALL_BAD	HELD_ALL_CASE	CVD_MAL_CASE	HELD_MAL_ADRCASE3ULN	HELD_PEM_HIRESP	CVD_MAL_CASE	HELD_MAL_ADRCASESULN
X 1 A2	СТ	c T	G A	GA	GA	G A	G A	G A	G G	C	A G	A G	ပ ဗ	CA	CA	C A	ပ	Ö	H	Ö	T
i A						Ť	Ť	_	Ť	 							H	⊣	ပ	T	C
boySNP A1A2	576	276	809	614	614	614	614	614	614	738	1056	1056	1092	1524	1524	1524	1574	1582	1657	1722	1756

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* EQ29	٥	0	16	9	17	4	4	2	2	2	11	9	10	=	4	∞	9	10	2	2	0
	18	6	8	17	33	34	34	16	18	16	69	37	52	69	30	39	12	20	0	10	13
FO.	20	12	20	35	6	69	69	35	34	35	52	36	53	52	35	29	4	01	16	28	6
H SO	18	6	86	29	175	42	42	20	22	20	91	49	72	91	58	55	24	40	4	14	13
#01B#04B	58	33	206	87	39	172	172	98	98	98	173	109	158	173	100	76	20	40	32	99	31
	38	. 21	152	28	107	107	107	53	54	53	132	62	115	132	79	9/	22	6	18 81	\$	22
1 AT 21	RL	RL	RESP	CIRL	8	TRL	J.R.L	TRL	J.E.	TRL	TRL	e B	В	TRE.	В	8	H	님	n n	ӈ	기
COHORK B	ALL_CTRI	HBLD_FEM_CTRL	HELD_FEM_VLORESP	HELD_MAL_ADRCTRL	HELD_ALL_GOOD	HELD_ALL_ADRCTRL	HELD_ALL_ADRCTRL	HBLD_MAL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_MAL_ADRCTRL	HBLD_ALL_ADRCTRL	HELD_FEM_GOOD	HELD_ALL_GOOD	HELD_ALL_ADRCTRL	HELD_FEM_GOOD	HELD_FEM_GOOD	HELD_FEM_CTRL	HELD_ALL_CTRL	HELD_MAL_CIRL	HBLD_ALL_CTRL	HELD MAL HIHDL
COHOR	A	HELD F	ELD FE	LD_MA	ELD_A	LD_AL	LD_AL	LD_MA	LD_FEE	LD_MA	LD_ALI	ELD_FI	WID A	CD_ALI	BLD FI	BLD_FI	ELD_FI	RLD_A	BLD_M	A_GIB	IID M
			出	H			閚	H	田	開	田	<u> </u>	144	田	H	H.		14		FE.	田
	7	7	. 23	2	11	-	0	0	-	0	7	2	13	11	16	3	-	3	9	∞	-
FOIL	13	∞ ·	73	<u>چ</u>	17	3	7	0	7	1	17	22	29	51	43	33	16	23	7	12	2
	25	16	75	30	9	96	19	7	24	12	29	49	58	72	21	4	14	19	7	25	16
	27	77	611	. 34	171	5	2	14	4	1	21	42	55	73	75	39	18	.29	13	78	4
100 E	63	40	177	06	29	75	40	0	20	25	75	120	145	195	85	121	4	19	15	62	34
	45	31	148	79	100	40	21	2	22	13	48	81	100	134	8	08	31	45	14	45	19
		E	SSP	ASB		BULN	SULN	SULN	BULN	BULN	BULN			SB							١
COHOPTA	HBLD_ALL_CASE	HELD_FEM_CASE	HELD_FEM_VHIRESP	HELD_MAL_ADRCASE	HELD_ALL_BAD	HELD_ALL_ADRCASE3ULN	HBLD_ALL_ADRCASBSULN	HBLD_MAL_ADRCASESULN	HELD_FEM_ADRCASEBULN	HELD_MAL_ADRCASESULN	HELD_ALL_ADRCASE3ULN	HELD_FEM_BAD	HELD_ALL_BAD	HELD_ALL_ADRCASE	HELD_FEM_BAD	HELD_FEM_BAD	HELD_FEM_CASE	HBLD_ALL_CASB	HELD_MAL_CASE	HELD_ALL_CASE	HELD_MAL_LOHDL
COE	V CTE	H.D.F	LD_FEB	D_MAI	ELD_A	ALL A	ALL_A	MALA	FEM_A	MAL_A	AT. A	HLD H	Y OTT	D_ALL	ELD FI	ELD FI	5 E	ILD_AI	LD_M	ID_AI	D_MA
	ж	Ħ	H	· HBL	Ħ	TELD	HELD	HELD	Татан	HELD	HELD	H	H	H	田田	民	毘	H	用	閚	開
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P. A.1	Ð	Ð	Ð	Ð	٧	T	Ŧ	T	Ţ	T	ပ	ರ	ರ	ပ	4	Ü	b	O	Ö	Ü	₹
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answa.	1757	1757	1757	1757	1765	1767	1767	1767	1767	1767	1837	1837	1837	1837	1854	1862	2085	2085	2093	2093	2109

8 B								<u> </u>		Π		Γ		Ι	_	Γ_		П	Γ	T	
	0	30	3	12	4	2	~	2	4	7	4	0	9	0	0		0	-	4	2	0
FQ12	20	231	30	0	18	89	15	40	18	19	18	٥	23	13	13	17	13	17	25	39	8
EQ17	. 28	439	45	20	38	191	29	11	30	51	30	50	42	57	57	108	57	108	20	99	112
FOLB FOLB	20	291	36	24	26	88	25	20	26	33	26	6	35	13	13	19	13	19	33	59	5
FOI B	9/	1109	120	40	24	390	73	194	78	121	78	109	107	127	127	233	127	233	125	171	53
SICE T.B.	48	700	78	32	09	239	49	122	52	77	52	59	71	20	70	126	20	126	79	115	17
COHORI, B'(5)	HELD_ALL_HINDL	HBLD_ALL_GOOD2	HELD_FEM_GOOD	HELD_MAL_GOOD	HELD_FEM_ULORESP	HELD_FEM_LORESP	HELD_MAL_ADRCTRL	HELD_FEM_VLORESP	HELD_MAL_ADRCTRL	HELD_FEM_ULORESP	HELD_MAL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_ADRCTRL	HBLD_ALL_ADRCTRL	HELD_FEM_GOOD	HELD_ALL_GOOD	HELD_MAL_CTRL .
FQ2Z	-	21	-	2	0	7	0	2	0	0	0	-	3	0	o.	0	0	0	9	6	-
T012	9	171	61	0	7	54	12	27.	2	15	16	2	17	1	0	9	0	2	42	20	92
TOA	32	432	8	7	36	181	34	96	14	38	42	9	01	89	30	126	16	45	32	39	2
F.0. Y	∞	213	21	8	7	28	12	31	2	15	16	4	23	1	99	9	32	2	54	89	12
FOLA.	70	1035	139	14	79	416	8	207	30	12	100	14	37	137	0	258	0	25	106	128	41
STEEDS	39	624	80	17	43	237	46	119	16	53	58	6	30	69	30	132	16	47	80	86	13
∨_соновт_∧	HELD_ALL_LOHDL	HELD_ALL_BAD2	HELD_FEM_BAD	HELD_MAL_BAD	HELD_FEM_UHIRESP	HELD_FEM_HIRESP	HELD_MAL_ADRCASE	HELD_FEM_VHIRESP	HELD_MAL_ADRCASE3ULN	HBLD_FEM_UHIRESP	HELD_MAL_ADRCASE	HELD_MAL_ADRCASESULN	HBLD_FEM_ADRCASESULN	HELD_PEM_ADRCASE	HELD_FEM_ADRCASESULN	HELD_ALL_ADRCASE	HELD_FEM_ADRCASESULN	HELD_ALL_ADRCASE3ULN	HELD_FEM_BAD	HBLD_ALL_BAD	HBLD_MAL_CASE
24	A G	A G	A G	G	GT	GT	G T	T	G A	Ą	A P	Ü	H	Ą	A A	¥	¥	4	Ö	Ü	T
V		 	 	۲	۲	٦	۲	Ð	-	ð	O	H	Ö	Ö	ß	Ü	Ö	Ö	₽	H	٥
baysve Al A2	2109	2109	2109	2124	2140	2140	2140	2140	2141	2141	2141	2186	2187	2192	2192	2192	2192	2192	.2203	2203	2217

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	2	3	9	2	1	14	14	14	62	0	1	0	0	43	0	2	0	٥	4	∞	14
EQ1.	8	8	9	13	0	28	28	28	121	0	11	4	9	249	34	17	0	0	39	38	99
IC TO STATE	. 30	11	9	20	17	12	12	12	68	21	26	45	15	434	683	51	36	22	327	24	48
HOZE BUTOU	12	14	18	17	2	26	99	56	275	0	13	4	9	335	34	27	72	44	47	54	94
CI B	89	30	18	53	34	52	52	52	287	42	63	94	36	1117	1400	119	0	0	693	98	162
SIZIE	40	22	18	35	18	54	54	54	281	21	38	49	21	726	717	73	36	22	370	70	128
A COHORT BE	CVD_FEM_CTRL	HELD_FEM_CTRL	HELD_MAL_CTRL	HELD_MAL_GOOD	HELD_MAL_CTRL	HELD_MAL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_FEM_LORESP	CVD_MAL_CTRL	HBLD_ALL_CTRL	CVD_ALL_CTRL	HELD_FEM_CTRL	HELD_ALL_GOOD2	HELD_ALL_GOOD2	HELD_FEM_ULORESP	HELD_ALL_CTRL	HELD_FEM_CIRL	HBLD_FEM_GOOD2	HELD_FEM_ADRCTRL	HELD_ALL_ADRCTRL
EQ22	0	11	0	0	5	15	6	4	28	-	7			35	0	2	0	0	0	22	. 31
TO S	3	14	8	7	0	18	11	4	123	13	e.	20	2	263	47	24	7	9	42	31.	59
FOIT	30	9	9	15	6	56	S	6	63	52	40	79	28	332	573	26	37	24	265	19	44
	3	36	∞	2	10	48	7	12	291	15.	7	22	4	333	47	28	7	9	. 42	75	121
	63	26	20	32	18	0/	11	22	249	117	83	178	58	927	1193	- 9/	81	52	572	69	147
8128	33	31	14	17	14	59	6	17	270	99	45	100	31	630	620	52	4	30	307	72	134
COHOPTA	CVD_FEM_CASE	HELD_FEM_CASE	HELD_MAL_CASE	HELD_MAL_BAD	HELD_MAL_CASE	HELD_MAL_ADRCASE	HELD_MAL_ADRCASESULN	HELD MAL ADRCASESULN	HELD_FEM_HIRESP	CVD_MAL_CASE	HELD_ALL_CASE	CVD_ALL_CASE	HELD_FEM_CASE	HELD_ALL_BAD2	HELD_ALL_BAD2	HELD FEM_UHIRBSP	HELD_ALL_CASE	HELD_FEM_CASE	HELD FEM_BAD2	HELD_FEM_ADRCASE	HELD_ALL_ADRCASE
3	Ŧ	O	Ö	¥	O	Ö	ပ	O	ပ	Ø	0	ß	0	C	H	Ö	ပ	C	ပ	Ð	Ø
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Messar	2217	2281	2281	2284	2290	2327	. 2327	2327	2327	2353	2353	2353	2353	2371	2376	2401	2463	2463	2463	2755	2755

EQ22.	57	40	22	0	38	∞	0	0	15	m	4	т	0	0	0	5	-	13	0	5	18
PQ12	121	9/	44	13	24	37	0	5	23	11	16	11	0	0	0	7	× ·	36	7	16	<i>L</i> 9
TO B	106	29	Ξ	130	46	26	8	13	13	. 30	70	30	63	30	33	5	9	24	<i>L</i> 9	15	47
F02 B	235	156	88	13	100	53	0	5	53	17	24	17	0	0	0	11	10	62	7	26	103
ROI B	333	134	99	6	116	231	120	31	49	11	156	11	126	09	99	17	70	84	141	46	191
Tans	284	145	11	31	108	142	8	18	51	4	8	44	63	30	33	17	15	73	74	36	132
COHORT B-	HELD_FEM_LORESP .	HELD_FEM_VLORESP	HELD_FEM_ULORESP	HELD_FEM_ADRCTRL	HELD_FEM_VLORESP	HELD_FEM_VLORESP	HELD_MAL_ADRCTRL	HELD_FEM_CTRL	HBLD_MAL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_MAL_ADRCTRL	CVD_ALL_CTRL	CVD_MAL_CIRL	CVD_FEM_CTRL	HELD_MAL_CTRL2	HELD_FEM_HIHDL	HELD_FEM_ULORESP	HELD_FEM_ULORESP	HELD_MAL_GOOD	HELD_ALL_ADRCTRL
F022	36	79	∞	0	24	-	0	0	9	0	0	0	0	0	0	0		9.	3	0	12
E A	139	<i>L</i> 9	78	2	4	4.7	-	_	21	٥		-	ន	i.	ന്	14	=	13	Ξ	Φ	25
F011	96	48	18	15	42	103	∞	27	18	7	17	11	8	19	53	٥	0	29	40	12	=
F07	211	119	44	2	. 68	49	-	-	33	14	-	-	2	7	e.	14	13	30	17	9	49
FOICE	331	163	64	32	125	253	17	55	57	0	35	23	130	129	61	,32	=	9/	91	30	47
1	271	141	54	17	107	151	6	28	45	7	18	12	100	89	32	23	12	53	54	18	48
COHORT A SIME	зашн ман отви	HELD_FEM_VHIRESP	HELD_FEM_UHIRESP	HELD_FEM_ADRCASE3ULN	HELD_FEM_VHIRESP	HBLD_FEM_VHIRESP	HELD_MAL_ADRCASESULN	HELD_FEM_CASE	HELD_MAL_ADRCASE	HELD_MAL_ADRCASESULN	HELD_ALL_ADRCASESULN	HELD MAL ADRCASESULN	CVD_ALL_CASE	CVD_MAL_CASB	CVD_FEM_CASE	HELD_MAL_CASE2	HELD_FEM_LOHDL	HELD_FEM_UHIRESP	HELD_FEM_UHIRESP	HELD_MAL_BAD	HELD_ALL_ADRCASE3ULN
AT AT	A G	G A	G B	G A	TA	S C	C G	ဝ	TC	CA	CA	CA	<u>၅</u>	S	<u>ပ</u>	A T	A T	G	CA	T C	A T
- Thaysing	2755	2925	2925	3043	3152	3214	3215	3237	3241	3826	3826	3826	3842	3842	3842	3843	3843	3869	3942	4018	4206

#022 B	10	81	7	23	0	4	7.	∞	2	1	1	9	9	1	1	9	30	2	6	2	0
10 CE	35	29	14	148	2	14	42	29	42	19	19	47	47	19	19	47	19	62	6	14	15
F01.8 F02.8 F01.1 F03.8	72	47	33	199	14	==	08	34	08.	39	39	11	11	39	39	75	39	214	16	20	4
1700 B	55	103	28	194	2	22	46	45	46	21	21	65	29	21	21	65	121	72	27	18	15
F01.8	8	161	8	546	30	36	202	26	202	26	26	201	201	26	26	197	139	490	41	54	103
SIZE	72	132	54	370	16	29	124	71	124	59	59	130	130	59	59	. 128	130	281	34	36	29
COHORT B.	HELD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	CVD_ALL_CTRL	HELD_FEM_GOOD2	HELD_MAL_CTRL	HELD_MAL_CTRL2	HELD_ALL_ADRCTRL	HELD_ALL_CTRL2	HELD_ALL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_LORESP	HELD_MAL_GOOD	HBLD_MAL_GOOD	HBLD_MAL_ADRCTRL
ZZ W	.12	7	0	=		-	2	2	2	2	9	13	4	2	9	13	1	7	0	0	
10012 10022 A 10022	38	14	78	110	2	17	24	36	12	10	25	57	23	10	25	57	16	84	10	14	-
	. 17	2	43	199	9	27	77	63	12	2	31	63	20	5	30	29	. 6	195	8	3	7
	72	78	78	132	7	51	28	4	16	14	37	83	31	14	37	83	18	86	10	14	3
5 A	27	24	114	208	17	71	89	162	36	20	87	183	63	70	85	181	34	474	26	20	15
N. A.	72	56	11	320	12	45	48	104	26	17	62	133	47	17	19	132	79	286	<u>8</u>	17	6
13.27	HELD_FEM_ADRCASE	HBLD_ALL_ADRCASESULN	CVD_ALL_CASB	HBLD_FEM_BAD2	HELD_MAL_CASE	HELD_MAL_CASE2	HELD_ALL_ADRCASE3ULN	HELD_ALL_CASE2	HELD_ALL_ADRCASESULN	HBLD_MAL_ADRCASB3ULN	HELD_MAL_ADRCASE	HELD_ALL_ADRCASE	HELD_ALL_ADRCASESULN	HELD_MAL_ADRCASESULN	HELD_MAL_ADRCASE	HELD_ALL_ADRCASE	HELD_ALL_ADRCASESULN	HELD_FEM_HIRESP	HELD_MAL_BAD	HELD_MAL_BAD	HELD_MAL_ADRCASESULN
7	T.	A	₽ B	₽ B	₽ B	B B	G A	B B	GA	A Q	₹ Ø	A Q	G A	G A	A Đ	G A	CA	CT	G A	Q A	A G
program of the second	4206	4206	4527	4527	4527	4527	4527	4527	4527	4544	4544	4544	4544	4545	4545	4545	4668	4669	4718	4818	4827

F022	23	0	0	0	-	2	12	70	6	6	70	6	70	21	6	6	21	7	14	3	00
T0125	32	3	26	56	=	19	4	71	43	43	17	43	71	69	42	42	69	20	37	10	6
FQ11	16	31	33	33	9	17	15	37	17	17	37	17	37	38	19	. 19	38	7	∞	∞	17
EQ2.B	78	m	92	56	13	23	28	111	19	61	111	61	111	111	09	09	111	34	65	16	25
FOI B	2	65	22	92	23	53	34	145	77	77	145	11	145	145	08	Ó8	145	34	53	26	43
SIZE	71	34	59	59	≊.	38	31	128	89	69	128	69	128	128	2	20	128	34	59	21	34
COHORIGE S	HELD_ALL_CTRL2	CVD_MAL_CTRL	HBLD_MAL_ADRCTRL	HBLD_MAL_ADRCTRL	HBLD_MAL_CTRL	HELD_ALL_CTRL	HELD_MAL_GOOD	HELD_ALL_ADRCTRL	HBLD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HBLD_ALL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	HELD_MAL_GOOD	HELD_MAL_ADRCTRL	HELD_FEM_CTRL	CVD_FEM_CTRL
FQ22	70	0	9		0		∞	16	12	∞	Ξ	24	.39	16	12	∞	11	0	13	6	10
2100	49	٥	24	6	7	13		13	6	8	ω	30	57	12	œ	4	7	6	28	17	19
ioa	32	69	32	4	12	31	m	19	10	4	7	19	39	20	11	2	80	6	20	4	3
N.COT	68	138	36	5	2	15	17	45	33	21	30	78	135	4	32	20	53	6	54	35	39
FOLA	113	0	88	=	26	75	7	51	29	13	22	89	135	52	30	41	23	27	89	25	25
SIZZE	101	69	79	∞	14	45	12	48	31	17	56	73	135	48	31	17	26	18	19	30	32
COHORT A	HELD_ALL_CASE2	CVD_MAL_CASE	HELD_MAL_ADRCASE	HBLD_MAL_ADRCASESULN	HELD_MAL_CASE	HELD_ALL_CASE	TRID_MAL_BAD	HELD_ALL_ADRCASE3ULN	HELD_FEM_ADRCASE3ULN	HBLD_FEM_ADRCASESULN	HELD_ALL_ADRCASESULN	HELD_FEM_ADRCASE	HELD_ALL_ADRCASE	HBLD_ALL_ADRCASEBULN	HELD_FEM_ADRCASESULN	HELD_FEM_ADRCASESULN	HELD_ALL_ADRCASESULN	HELD_MAL_BAD	HELD_MAL_ADRCASE	HELD_FEM_CASE	CVD_FEM_CASE
P A1 X2	A G	G A	TC	тс	c v	c v	G A	G A	G A	G A	G A	G A	G A	T C	E C	H C	T C	G A	G A	G.	A T
baySINP	4838	4856.	4868	4868	4887	4887	4912	4951	4951	4951	4951	4951	4951 (4952	4952	4952	4952	4966	4966	4966	₹ 610S

Branch Section																					
T022	24	∞	41	12	2	0	2	2	2	3	15	28	5	11	9	12	0	4	4	0	0
FOLS	22	∞	34	7	14	15	14	14	23	28	14	99	38	09	38	59	0	35	. 35	4	0
FOT	16	9	25	5	54	44	54	54	.35	116	9	40	28	09	56	57	58	25	25	51	71
FOLD KOLD FOLD	20	24	116	31	18	15	18	18	17	34	4	122	48	82	20	83	0	43	43	4	142
	54	70	84	11	122	103	122	122	66	260	32	146	94	180	06	173	116	85	85	106	0
	62	22	100	24	0/	6\$	70	02	09	147	38	134	71	131	20	128	28	2	64	55	71
COHORTE	HELD_ALL_	HELD_MAL_HHDL	GOOD TIV GIBH	HELD_MAL_CIRL2	HELD_FEM_ADRCIRL	HELD_MAL_ADRCTRL	HELD_FEM_ADRCTRL	HBLD_FEM_ADRCTRL	HELD_MAL_ADRCTRL	HBLD_FEM_VLORESP	CVD_FEM_CTRL	HELD_FEM_VLORESP	HELD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	HBLD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	HBLD_MAL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_MAL_ADRCTRL	HELD_FEM_ADRCTRL
F022	14	7	70	9	0	-	0	0	2	10	4	44	0	0	0	0	0	7	0	1	0
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	23	11	29	12	16	7	45	∞	3	108	11	31	13	17	12	15.	7	35	11	52	15
	78	6	11	31	14	3	26	8	8	61	26	150	3	∞	3	6	1	32	4	2	1
Y D	96	27	95	43	46	15	116	24	10	257	40	124	29	42	27	39	15	88	26	191	31
STATE INO	87	18	98	37	90	6	11	16	6	159	33	137	16	25	15	24	∞	99	15	53.	. 16
COHCETA	HBLD_ALL_CASE2	HELD_MAL_LOHDL	HELD_ALL_BAD	HBLD_MAL_CASE2	HELD_FEM_ADRCASEBULN	HELD_MAL_ADRCASESULN	HELD_FEM_ADRCASB	HELD_FEM_ADRCASESULN	HELD_MAL_ADRCASBSULN	HELD_FEM_VHIRESP	CVD_FEM_CASE	HELD FEM_VHIRESP	HELD_FEM_ADRCASESULN	HBLD_ALL_ADRCASESULN	HELD_FEM_ADRCASESULN	HELD_ALL_ADRCASESULN	HELD_MAL_ADRCASESULN	HBLD_FEM_ADRCASE	HELD_FEM_ADRCASESULN	HELD_MAL_ADRCASE	HELD_FEM_ADRCASESULN
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S Daysing	5019	5019	5019	5019	5165	5165	5165	5165	5278	5287	5320	5324	5373	5373	5375	5375	5376	5377	5377	5517	5518

Barner and the control																					
1022 S.B.	4	4	12	17	10	17	07	53	7	0	S	7	7	0	1	0	0	9	15	11	7
EQLZ LB	16	24	20	28	33	28	33	64	12	6	18	19	49	20	41	07	20	43	34	. 53	23
FQ11 B	14	25	99	34	16	34	16	39	5	9	9	32	72	46	82	46	46	23	19	62	28
EQ2 B	24	32	74	92	53	92	53	122	16	6	28	33	63	20	43	20	20	55	49	75	37
160' B	4	74	170	126	65	126	65	142	22	21	30	83	193	112	205	112	112	68	72	177	79
1 P	34	53	122	109	59	109	53	132	19	15	23	28	128	99	124	99	99	72	89	126	58
COHORT B	CVD_MAL_CTRL	HELD_MAL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	HBLD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	CVD_FEM_CTRL	HELD_MAL_CTRL	CVD_MAL_CTRL	HELD_MAL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	HBLD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ULORESP	HELD_FEM_GOOD	HELD_ALL_ADRCTRL	HBLD_MAL_ADRCTRL
#022 A	7	0	0	19	13	∞	و	6	8	5	7	4	19	ю.	3	9	6	13	7	6	5
F0.12	51		L	22	1.4	12	œ	14	ŵ	4	24	32	43	. 5	7	27	12	24	30	24	6
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Š.	99	1	7	54	40	28	20	32.	22	14	38	9	81		13	39	18	20	4	42	19
	73	15	37	34	18	16	21	70	12	14	78	92	177	21	33	105	42	54	82	52	15
SIZE	69	∞	22	4	29	22	15	56	17	14	58	28	129	16	23	72	30	52	63	47	17
V LUOHOD	IAL_CASE	HELD_MAL_ADRCASESULN	HELD_ALL_ADRCASESULN	HELD_ALL_ADRCASE3ULN	HELD_FEM_ADRCASE3ULN	HELD_ALL_ADRCASESULN	HELD_FEM_ADRCASESULN	HELD_ALL_ADRCASESULN	CVD_FEM_CASE	HELD_MAL_CASE	CVD_MAL_CASE	HELD_MAL_ADRCASE	HELD_ALL_ADRCASE	HELD_FEM_ADRCASESULN	HELD_ALL_ADRCASESULN	HELD_FEM_ADRCASE	HELD_FEM_ADRCASE3ULN	HELD_FEM_UHIRESP	HELD_FEM_BAD	HELD_ALL_ADRCASESULN	HELD_MAL_ADRCASE3ULN
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DBVSIVP A1 A2		8955	5569	5716	5716	5716	5716	5717	5717	5850	5959	6151	6236	6277	6277	6277	6277	6313	6969	6374	6374

	0		0	0	1	0	0	2	0	3	3	10	0	0	0	0	0	0	0	21	12
2 A	9	13	7	10	12	21	21	46	21	15	15	. 36	4	4	12	4	12	12	0	43	47
	12	26	. 30	09	99	39	39	83	39	53	53	13	29	29	119	29	119	119	15	53	55
102-И БОЛ В У В	9	15	7	10	14	21	21	20	21	21	21	99	4	4	12	4	12	12 .	0	85	71
KO1 B	30	65	19	130	124	66	66	212	66	121	121	62	138	138	250	138	250	250	30	149	157
	18	40	37	70	69	09	8	131	9	71	71	65	11	11	131	71	131	131	15	117	114
COHORAIN	HELD_MAL_CTRL	HELD_ALL_CTRL	CVD_FEM_CTRL	CVD_ALL_CTRL	HBLD_ALL_CTRL2	HBLD_MAL_ADRCTRL	HELD_MAL_ADRCTRL	HBLD_ALL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_FEM_ADRCTRL	HBLD_FEM_ADRCTRL	HELD_MAL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_ALL_ADRCIRL	HBLD_ALL_ADRCTRL	HELD_ALL_CTRL	HBLD_ALL_ADRCTRL	HELD_ALL_ADRCTRL
0.00	0	-	1	2	5	2	3	3	5	0	2	0	0	0	0	0	0	0	0	15	2
	. 0	5	13	23	77	-	3	6	18	13	29	8	13	7	15	19	∞	56	3	19	6
	14	39	21	72	59	2	10	13	39	18	42	6	18	10	33	54	18	110	6	43	33
	28	7	15	27	32	5	6	15	28	13	33	∞	13	7	15.	19	∞	56	m	26	13
	0	83	55	167	140	11	23	35	96	49	113	26	49	27	81	127	44	246	21	153	75
SIXES	14	45	35	26	98	∞	16	25	62	31	73	17	31	17	48	73	76	136	12	125	4
COHORLA	HELD_MAL_CASE	HELD_ALL_CASE	CVD_FRM_CASE	CVD_ALL_CASE	HELD_ALL_CASE2	HELD_MAL_ADRCASESULN	HELD_MAL_ADRCASESULN	HELD_ALL_ADRCASESULN	HELD_MAL_ADRCASE	HELD_FEM_ADRCASESULN	HELD_FEM_ADRCASE	HELD_MAL_ADRCASE3ULN	HELD_FEM_ADRCASE3ULN	HELD FEM_ADRCASESULN	HELD_ALL_ADRCASESULN	HELD_FEM_ADRCASE	HELD_ALL_ADRCASESULN	HELD_ALL_ADRCASE	HELD_ALL_CASE	HELD_ALL_ADRCASE	HELD_ALL_ADRCASE3ULN
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CALLES AT AZ C	9689	9669	96E9	9689	6486	6520	6520	6520	6520	6522	6522	6524	9659	9659	9659	9659	9659	9659	6734	6743	7128

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FOIT	25	55	25	25	20	73	58	58	39	7	7	. 28	31	48	38	18	18	38	47	74	117
SIZE FOUR FOUR	41	71	41	41	31	45	14	14	23	37	20	112	9	33	101	56	56	101	34	45	12
FOI B	77	157	11	11	127	185	130	130	95	33	18	116	99	125	147	78	78	147	120	179	246
	59	114	59	59	79	115	72	72	59	35	19	114	36	79	124	19	19	124	11	112	129
COHORT B	HELD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_GOOD	HELD_ALL_GOOD	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_MAL_ADRCTRL	HELD_MAL_GOOD	HELD_MAL_CTRL	HELD_ALL_GOOD	HELD_MAL_GOOD	HELD_FEM_GOOD	HELD_ALL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_GOOD	HELD_ALL_GOOD	HELD_ALL_ADRCTRL
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ROLA FORM FOIT FOLIS FOLIS	2	'n	17	_ش	35	4.1	·	12	0	٥	2	36	80	14	15	91	30	55	16	18	10
FOIL	21	17	42	=	39	51	00	18	7	=	3	38	10	19	19	01	70	41	9	74	38
FO: A	6	7	31	5	49	57	01	14	0	01	12	92	01	22	39	28	89	117	16	24	10
V IO	47	39	101	25	113	143	24	48	14	28	16	112	78	136	53	30	22	137	136	166	98
SIZE.	28	23	99	15	81	100	17	31	7	19	14	24	19	79	46	29	69	127	92	95	48
A COHOPIA		HELD_ALL_ADRCASESULN	HELD_FEM_ADRCASE	HELD_FEM_ADRCASESULN	HELD_FEM_BAD	HELD_ALL_BAD	HELD_FEM_ADRCASESULN	HELD_FEM_ADRCASE3ULN	HELD_MAL_ADRCASESULN	HELD_MAL_BAD	HELD_MAL_CASE	HELD_ALL_BAD	HELD_MAL_BAD	HELD_FEM_BAD	HBLD_ALL_ADRCASE3ULN	HELD_FEM_ADRCASE3ULN	HELD_FEM_ADRCASE	HBLD_ALL_ADRCASE	HELD_FEM_BAD	HELD_ALL_BAD	HELD_ALL_ADRCASE3ULN
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Shaksarp A1 A2	7128	7128	7128	7128	7363	7363	7409	7409	7409	8138	8138	8138	8168	8168	8210	. 8210	8210	8210	8241	8241	8249

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	12	0	0	25	55	55	57	23	23	23	39	175	13	36	6	20	13	12	19	45	21
#011 B.V	117	39	34	56	99	99	99	29	29	59	74	122	2	21	51	12	4	29	33	89	. 35
FO2BI #Q11	12	0	0	85	85	85	91.	23	23	23	41	321	27	62	19	40	13	14	25	63	29
	246	78	89	167	167	167	169	81	81	81	187	419	17	78	111	44	21	20	85	223	16
Size Rough	129	39	34	126	126	126	130	25	25	25	114	370	22	70	92	42	17	42.	55	143	09
	IRL			RL	RL	TRI.	RL	IRL	IRL	IRL	RL	22	آ ا	77		7	ij.	12	喜	SSP	置
	ADRCTRL	CVD_FEM_CTRL	CVD_MAL_CTRL	HBLD_ALL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_MAL_ADRCTRL	HBLD_MAL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_GOOD2	HELD_FEM_HIHDL	HELD_ALL_CTRL2	CVD_ALL_CTRL	HELD_FEM_CTRL2	HELD_MAL_HIHDL	HBLD_FRM_ADRCTRL	HELD_MAL_ADRCTRL	HELD_FEM_VLORESP	HELD_MAL_ADRCTRL
A COHOR	ALL	VD_FEN	/D_MA	ALL.	ALL	ALL	ALL	MAL	MAL	MAL	ALL	D_FEN	CD_FEE	LD_AL	W_AL	CD FEA	D_MA	FBM	MAL	FEM	MAL.
	HELD	บ	บ	HELI	HELI	HELL	HELI	HELL	HBLI	HBL	HELL	H	H	H	O	HE	H	HBL	HELL	HELT	HELD
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FOLK HOZ N FOET FODS	و	9	٥	4	113	25	45	7		0	∞	722	22	59	9	33	41	3	2	48	2
	46	48	8	20	151	27	51	87	27	4	74	403	24	121	138	17	77	43	30	230	16 .
	26	27	22	47	132	56	48	47	41	7	41	315	18	8	25	52	18	23	16	139	6
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4	ASESU	ASE	ASE	ASE3U	RCASE	ASESU	ASEBU	RCASE	ASE3U	ASESU	ASEBU	8AD2	OHDL	ASE2	ASB	ASEZ	OHDL	ASEGU	ASEOU	IRESP	ASESU
HOFT	ADR.	CVD_FEM_CASE	CVD_MAL_CASE	ADRC	TT_AD	ADRC	ADRC	MLAI	ADR	ADRO	YDEC.	HELD FEM BAD2	HELD FEM LOHDL	HELD_ALL_CASE2	CVD_ALL_CASE	HELD_FEM_CASE2	HELD MAL LOHDL	(ADRC	ADRO	EW VI	, ADRC
A TAOHOO	HBLD_ALL_ADRCASESULN	g,	S,	HELD_ALL_ADRCASESULN	HELD_ALL_ADRCASE	HELD_ALL_ADRCASESULN	HELD_ALL_ADRCASESULN	HELD MAL ADRCASE	HELD_MAL_ADRCASEBULN	HELD_MAL_ADRCASESULN	HELD_ALL_ADRCASEBULN	HELD	THEED	CIEN	S.	HELD	HELD	HELD_FEM_ADRCASESULN	HELD_MAL_ADRCASESULN	HELD_FEM_VHIRESP	HELD_MAL_ADRCASESULN
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F02B	35	11	5	12	36	23	34	4	9	4	23	13	54	==	160	24	708	130	348	45	43
SIZZO - FOIT B	113	109	23	20	222	131	256	64	88	42	47	47	100	55	440	124	742	86	346	33	53
NEW STREET	74	99	14	31	129	11	145	34	47	23	35	30	77	33	300	74	725	114	347	39	36
CORONT B	HBLD_FBM_ULORESP	HELD_MAL_ADRCTRL	HELD_MAL_CTRL	HELD_ALL_CTRL	HELD_ALL_ADRCTRL	HELD_FEM_ULORBSP	HELD_FEM_VLORESP	CVD_MAL_CTRL	HBLD_ALL_HHDL	HBLD_MAL_HHDL	HELD_MAL_GOOD	HELD_MAL_GOOD	HELD_FEM_GOOD	CVD_MAL_CTRL	HELD_FEM_GOOD2	CVD_ALL_CTRL	HELD_ALL_GOOD2	HELD_ALL_GOOD	HELD_MAL_GOOD2	CVD_FEM_CTRL	HELD_MAL_GOOD
F022	0	0	0	1	2	-	-	0	0	0	-	2	3	1	6	9	117	20	28	4	2
FQ12 FO22	13	4	ō	6	113	5	17	0	0	0	4	7	32	∞	98	39	317	45	155	138	2
FOIF	36	4	12	34	28	49	133	<i>L</i> 9	39	61	14	4	46	09	148	58	203	34	101	13	7
100 X	18	4	0	2	22	7	19	134	78	38	9	11	38	10	104	.51	551	85	271	26	14
SIZE BOLA	8	12	24	71	74	103	283	0	0	0	32	15	124	128	382	155	723	113	357	4	24
SIZE	54	∞	12	38	48	55	151	19	39	19	19	13	81	69	243	133	637	8	314	35	19
у <u>та</u> еноэ	HBLD_FBM_UHIRBSP	HELD_MAL_ADRCASESULN	HELD_MAL_CASE	HELD_ALL_CASE	HELD_ALL_ADRCASE3ULN	HELD_FEM_UHIRESP	HELD_FEM_VHIRESP	CVD_MAL_CASE	HELD_ALL_LOHDL	HELD_MAL_LOHDL	HELD_MAL_BAD	HELD_MAL_BAD	HELD_FEM_BAD	CVD_MAL_CASE	HBLD_FEM_BAD2	CVD_ALL_CASE	HELD_ALL_BAD2	HELD_ALL_BAD	HELD_MAL_BAD2	CVD_FEM_CASE	HELD_MAL_BAD
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baySNP A1	9243	9523	9940	9940	10091	10541	10541	10600	10600	10600	10745	10748	10749	10785	10811	10811	10830	10830	10830	10830	10830

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101	.37	59	123	6	43	53	53	147	9	29	289	29	141	282	7	29	45	26	33	22	33
FQE B	16	99	123	0	65	63	63	174	28	29	390	29	165	381	27	29	09	25	37	39	34
#O.B	87	95	195	27	61	73	73	201	18	33	381	33	195	374	19	33	99	40	49	36	39
m T	69	191	.69£	6	173	179	179	495	62	87	1069	87	471	1044	19	87	165	9/	107	100	101
SIZE EQI	78	143	282	18	117	126	126	348	40	8	725	09	333	709	40	09	115	58	78	89	02
	Q	SSP	SP	.,	IRL	RL	IRL	20	,	E.	22	IR.	22	22	,	3	e	国	e e	7	13
COHOUT B	HELD_FEM_GOOD	HELD_FEM_VLORESP	HELD_FEM_LORESP	CVD_FEM_CTRL	HELD_ALL_ADRCTRL	HELD_ALL_ADRCTRL	ALL_ADRCTRL	HELD_MAL_GOOD2	CVD_FEM_CTRL	HELD_MAL_ADRCTRL	HELD_ALL_GOOD2	HELD_MAL_ADRCTRL	HELD_MAL_GOOD2	HELD_ALL_GOOD2	CVD_FEM_CTRL	HELD_MAL_ADRCTRL	HELD_ALL_GOOD	HELD_MAL_ADRCTRL	HELD_FEM_GOOD	HELD_ALL_CTRL2	HBLD_FBM_ADRCTRL
COHORT B	ILD FE	D_FEM	D FEN	VD_FEI	DALL	DALL	D_ALL	TD_MA	W FE	O_MAL	LD_AL	O_MAL	LD_MA	LD_AL	VD_FIB	D_MAL	ID_AI	D MAL	EN CLI	ID_AL	D_FBM
	毘	围	HEH	Ü	HEL	HEL	OTEN .	田田	Ö	HEL	田田	HEL	田	田	b	HEL	呂	HEL	閚	閚	HELT
#QQ2	18	22	42	16	0	0	0	. 17	-	3	32	2	138	32	-	6	3	0	15	15	4
FOLS TOSE	35	73	135	2	19	70	∞	109	14	10	223	5	106	216	14	10	35	5	38	48	4
A HOTE	27	45	26	0	28	27	17	187	8	4	375	2	185	372	61	4	2	2	56	43	∞
	17	117	219	34	19	82	∞	143	16	16	287	٥	142	280	16	16	41	2	88	78	21
513	68	163	319	2	27	47	42	483	25	18	973	6	476	096	22	18	163	25	8	134	8
A	88	140	569	81	47	47	25	313	35	12	630	6	309	620	34	17	102	15	79	106	19
COHORTA		<u>a</u>			ULN	CLN	N 5			NJOE		SULN				SULN		NID			SULN
A_TA	M_BAD	HELD_FEM_VHIRESP	HELD_PEM_HIRESP	CASE	HELD_ALL_ADRCASE3ULN	HELD_ALL_ADRCASESULN	HBLD_ALL_ADRCASESULN	HELD_MAL_BAD2	CASB	HELD_MAL_ADRCASE3ULN	HELD_ALL_BAD2	RCASE	HELD MAL BAD2	HELD_ALL_BAD2	CASE	RCASE	L_BAD	RCASE	M BAD	HELD_ALL_CASE2	RCASE
СОНО	HELD FRM BAD	D_FEM	D_PEM	CVD_FEM_CASE	KIL_AD	ALL AD	VII. AD	ID MA	CVD_FEM_CASE	AAL_AE	TV GT	AAL AD	LD_MA	TV QT	CVD_FEM_CASE	AAL AD	HELD_ALL_BAD	AAL_AE	HELD FEM BAD	ID_ALI	BM_AD
HOO	1=	田田	HE	5	HELD	HELD	HELD	盟	٥	HELD	H	HELD_MAL_ADRCASESULN	盟	出	6	HELD MAL ADRCASESULN	H	HBLD_MAL_ADRCASE3ULN	田	盟	HELD_FEM_ADRCASESULN
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1	-	U	Ð	4	¥	H	F	F	H	上	H	H	H	H	H	H	H	10	0	0	T
Parker Parker	10830	10949	10949	10962	10962	10966	10966	11000	11000	11000	11000	11000	11001	11001	11001	11001	11001	11020	11073	11073	11192

T022	3	5	10	43	1	2	16	35	3	7	3	0	2	0	1	2	1	1	1	0	0
E.	33	31	54	65	3	4	64	500	11	18	35	14	<i>L</i>	1	45	111	3	3	3	3	17
EQ11	34	35	19	6E	21	08	234	4/4	42	48	98	97	LT	68	304	622	65	65	65	19	23
FQ2 B	39	41	74	145	5	8	126	279	17	22	41	14	11	1	47	115	5	5	5	3	17
FQ1B	101	56	176	137	45	7 9	295	1157	95	114	207	99	19	79	£ 5 9	1355	133	133	133	41	63
SIZIE B	70	89	125	141	25	36	344	718	56	89	124	40	36	40	320	735	69	69	69	77	. 40
COHORTE CONTROL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_VLORESP	HELD_MAL_HHDL	HELD_MAL_GOOD	HELD_MAL_GOOD2	HELD_ALL_GOOD2	HBLD_ALL_HIEDL	HELD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	HELD_ALL_CTRL	HELD_MAL_GOOD	CVD_FEM_CTRL	HELD_MAL_GOOD2	HELD_ALL_GOOD2	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_CTRL	HBLD_ALL_CTRL
£055	9	2 .	7	22	4	2	12	32	2	9	∞	4	4	0	4	∞	0	0	0	5	4
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FOUL	14	23	81	38	9	∞	178	366	22	36	17	22	9	25	253	515	13	25	. 62	21	27
¥ 700	21	6	57	122	17	13	146	294	25	39	42	26	17	6	89	128	4	9	11	15	20
FOLA	37	51	205	154	21	25	478	362	59	86	190	62	21	59	995	1142	30	56	135	47	99
A	53	30	131	138	19	19	312	628	42	69	127	4	19	34	317	635	17	31	73	31	£3.
COHOFIA	HELD_FEM_ADRCASE3ULN	HELD_FEM_ADRCASE3ULN	HELD_ALL_ADRCASE	HELD_FEM_VHIRESP	HELD_MAL_LOHDL	HELD_MAL_BAD	HELD_MAL_BAD2	HELD_ALL_BAD2	HELD_ALL_LOHDL	HELD_FEM_ADRCASE	HELD_ALL_ADRCASE	HELD_ALL_CASE	HELD_MAL_BAD	CVD_FEM_CASE	HELD_MAL_BAD2	HELD_ALL_BAD2	HELD_FEM_ADRCASESULN	HELD_FEM_ADRCASE3ULN	HELD_FEM_ADRCASE	HELD_FEM_CASE	HELD_ALL_CASE
A1 A2	TA	CT	C T	G T	G A	G A	G A	G A	G A	G A	G A	GA	T	A G	G, T	G T	T C	T	T C	G A	0
* baySNP	11192	11248	11248	11410	11448	11448	11448	11448	11448	11448	11448	11448	11450	11456	11462	11462	11483	11483	11483	11531	11536

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a Tour	15	80	169	13	7	16	10	9	6	12	17	23	23	33	45	15	32	39	9	36	54
FOUR PX	.43	258	535	56	5	· 109	48	12	17	24	41	32	32	44	63	15	36	10	16	33	49
102 B	19	86	202	15	19	20	10	14	15	70	19	31	31	37	22	23	44	55	9	99	78
	101	296	1239	92	17	234	106	30	43	09	66	87	87	121	171	45	104	59	38	102	152
B B	9	347	722	40	18	127	28	22	29	9	59	29	59	79	114	34	74	57	22	62	115
gonoria T	HELD_MAL_ADRCTRL	HELD_MAL_GOOD2	HELD_ALL_GOOD2	HELD_ALL_CTRL	HELD_MAL_CTRL	HELD_ALL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_FEM_CTRL	HELD_MAL_CTRL2	HELD_ALL_CTRL	HELD ALL HINDL	HELD_MAL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_FEM_GOOD	HELD_ALL_GOOD	CVD_MAL_CTRL	CVD_ALL_CTRL	HELD_MAL_ADRCTRL	HBLD_FEM_CTRL	HELD_FEM_GOOD	HBLD_ALL_GOOD
TE 0.2	9	7	19	2	0	0	0	0	0	0	4	2	3	12	15	7	3	10	0	7	∞
	21	110	192	5	9	-	6	2	12	16	9	9	6	23	39	23	35	56	2	56	34
	36	196	422	38	∞	45	28	21	36	29	35	н	S	36	42	4	19	22	29	84	28
	33	124	230	6	9	1	3	10	12	16	14	2	15	53	8	27	41	46	2	9	20
TOTAL STATE	93	202	1036	81	22	16	119	52	28	74	9/	∞	19	101	123	111	169	74	99	122	150
×	63	313	633	45	14	46	61	31	48	45	45	6	17	77	96	69	105	99	31	81	100
A_TAOROO	HELD_MAL_ADRCASE	HELD_MAL_BAD2	HBLD_ALL_BAD2	HELD_ALL_CASE	HELD_MAL_CASE	HELD_ALL_ADRCASE3ULN	HELD_MAL_ADRCASE	HELD FEM_CASE	HBLD_MAL_CASE2	HELD_ALL_CASE	HELD_ALL_LOHDL	HELD_MAL_ADRCASESULN	HELD_MAL_ADRCASESULN	HELD_FEM_BAD	HBLD_ALL_BAD	CVD_MAL_CASB	CVD_ALL_CASE	HELD_MAL_ADRCASE	HELD_FEM_CASE	HBLD_FEM_BAD	HELD_ALL_BAD
A2	A G	V	C	A C	G T	I C	T C	T	TC	T	T	∀ 0	A O	A C	O V	A C	V V	O O	G B	CT	CT
paySivP	11537	11558	11558	11558	11585	11594	11594	11614	11614	11614	11614	11631	11631	11637	11637	11637	11637	11641	T	1	

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TOTAL BOZ	10	5	4	4	5	П	4	24	26	26	16	6	Э	3	3	0	0	19	-6	61	6
FOLZ P	10	78	16	16	28	12	43	-	49	49	. 29	56	56	56	26	25	11	70	43	20	43
POLL	15	7.1	56	26	71	45	81	31	57	57	27	26	26	26	. 29	51	102	37	18	37	18
ROZB FOLD	30	38	24	24	38	14	51	49	101	101	19	32	32	32	32	25	11	108	19	108	19
FOLB	40	170	89	89	170	102	205	63	163	163	83	78	78	78	84	127	215	144	79	144	62
SIZE	35	104	46	46	104	28	128	56	132	132	72	55	55	55	28	9/	113	126	92	126	70
4	QO	TRL	TRL	TRL	TRL	TRL	TRL	JET.	HEL.	TEL	TRL	JEE.	TRL	TRL	IR.	ESP	T.E.	TRL	TE.	E E	TRL
COHORTB	HELD_MAL_GOOD	HELD_ALL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_ALL_ADRCTRL	HBLD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_MAL_ADRCTRL	HELD MAL ADRCTRL	HELD_MAL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_FEM_ULORESP	HELD_ALL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_ADRCTRL
COH	м ста	LD_ALI	LD_MA	LD_MA	LD_ALI	LD FEN	LD_ALI	CD_MA	LD_ALI	LD_ALI	LD_FEN	CD_MA	D_MA	D_MA	D_MA	CD FBN	LD_ALI	CD_ALI	D FEW	LD_ALL	D_FEM
	#	田	HE	田	田	H	田田	HE	田田	HE	田田	H	HE	HE	HEI	H	HE	H	H	田田	田
F022	2	0	0	0	0	0	0	21	7	-	7	0	-	9	0	5	0	15	∞	=	=
FOIZ	12	0	0	0	4	0	4	٥	23	17	8	٥	-	7	٥	13	4	13	S	∞	6
Hozyk FOTA	2	70	13	∞	33	12	20	8	18	∞	0	∞	13	35	7	32	115	19	4	7	01
1002 A	. 91	40	26	16	4	24	4	20	32	19	24	16	3	26	14	28	4	43	21	30	31
FOLA	22	0	0	0	70	0	4	10	64	33	38	0	27	84	0	82	234	51	13	22	29
	19	20	13	∞	37	12	24	15	48	56	31	∞	15	55	7	55	119	47	17	26	30
V	Q	SSULN	EBULN	ESULN	BULN	ESULN	SULN	BULN	BULN	STOLN	BULN	ESULN	BULN	ASB	SULN	SP	SE	BULN	SULN	SULN	BULN
COHOET_A	HELD_MAL_BAD	DRCAS	DRCAS	ADRCAS	DRCASI	DRCAS	DRCASI	DRCAS	DRCASI	DRCASI	DRCASI	DRCASI	DRCASI	ADRC	DRCASI	4_UHIRE	ADRC	DRCASE	DRCASE	DRCASE	DRCASE
СОН	HELD_N	HELD_ALL_ADRCASESULN	HBLD_MAL_ADRCASE3UIN	HELD_MAL_ADRCASESULN	HBLD_ALL_ADRCASE3ULN	HELD_FEM_ADRCASESULN	HELD_ALL_ADRCASESULN	HELD_MAL_ADRCASE3ULN	HELD_ALL_ADRCASESULN	HELD_ALL_ADRCASESULN	HBLD_FEM_ADRCASE3ULN	HELD_MAL_ADRCASESULN	HELD_MAL_ADRCASE3ULN	HELD_MAL_ADRCASE	HELD_MAL_ADRCASESULN	HELD_FEM_UHIRESP	HELD_ALL_ADRCASE	HELD_ALL_ADRCASESULN	HELD_FEM_ADRCASESULN	HELD_ALL_ADRCASESULN	HELD_FEM_ADRCASESULN
				L		L	<u> </u>	HELD		_		ـــــ	<u> </u>	田	HELD	Ħ	開	THE CO	HELD	HELD	<u> </u>
A1 A2	T	⊀ -	4	₹ T	₹	4	O.	H	Ö	ပ	O	⋖	4	⋖	4	⋖	T	G	Ö	ΰ	Ŋ
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baySNP	11652	11727	11727	11727	11727	11727	11728	11914	11938	11938	11938	11950	11950	11950	11951	11951	12008	12031	12031	12031	12031

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#6 °	_	3			14	4	6	3	3	26	9	9	14	14	26	1	39	3	. 16	4	35
A STATE OF THE PARTY OF THE PAR	2	43	9	9		14	23	.23	23		76	26				11		23		24	3
rort.	37	18	9	64	114	124	30	30	30	29	50	29	46	46	103	4	102	46	36	28	29
102 B	108	19	9	9	14	18	22	<i>L</i> Z	L7	32	32	32	14	14	30	11	45	22	32	36	47
ROJEB	144 ·	79	136	134	242	797	83	83	83	84	84	84	106	106	232	66	243	115	88	80	93
SEZES FROTER FOR BA	126	70	71	70	128	140	55	55	55	58	58	58	9	09	131	55	144	71	99	58	70
	TRL	TRL	ESP	TRL	TRL	ESP	TRL	TRL	TRL	TRL	TRL	TRL	TRL	TRL	TRL	TRL	ESP	TRL	TRL	HE.	TRL
COHORT B	ALL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ULORESP	HELD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_VLORESP	HELD_MAL_ADRCTRL	HBLD_MAL_ADRCTRL	HBLD_MAL_ADRCTRL	HBLD_MAL_ADRCTRL	HBLD_MAL_ADRCTRL	HELD_MAL_ADRCTRL	HBLD_MAL_ADRCTRL	HBLD_MAL_ADRCTRL	HBLD_ALL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_FEM_VLORESP	HELD_FEM_ADRCTRL	HELD MAL ADRCTRL	HELD_MAL_ADRCTRL	HBLD_FEM_ADRCTRL
S COHO	ALL	FBM	FEM	FEM	ALL	FEM	MAL	- MAL	MAL	MAL	MAL	MAL	MAL	MAI	ALL	- WAL	FEM	FEM	MAL	MAL	FEM
ex esta	HELD	HELL	HBC	HBL	HELI	HEL	HELL	HBC	HBL	HBLL	HELL	HELL	HBLI	HBLI	HEL	HELI	HEL	HELL	HBIT	H	HBL
F022	39	23	-	2	. 3	-	2	∞	3	3	15	4	0	0	4	-	5		2	4	2
	55	30	12	12	22	27	5	78	∞	0	41	т	2	∞	39	24	58	2	26	2	N.
Total Table	39	19	38	. 65	109	108	-	19	S	9	30	2	3	∞	68	37	88	9	34	=	7
	133	9/	14	16	78	29	6	4	14	٥	4	=	~ ~	∞	47	78	89	12	8	2	15
FOLA BOOM	133	89	88	130	240	243	7	8	18	12	74	23	=	24	217	86	234	22	2	24	61
SIZE A	133	72	51	73	134	136	∞	55	16	6	65	17	∞	16	132	83	151	17	29	17	17
93					8		N IS	M	NIS	N 15	m	ULN	Z	N N		Ш		Z ₁	m	N. S.	N CIEN
V	HELD_ALL_ADRCASE	HELD_FEM_ADRCASE	HELD_FEM_UHIRESP	HELD_FEM_ADRCASE	HELD_ALL_ADRCASE	HELD FEM VHIRESP	CASBS	HELD_MAL_ADRCASE	CASE	CASES	HBLD_MAL_ADRCASE	CASES	CASES	CASES	HELD_ALL_ADRCASE	HBLD_MAL_ADRCASE	HELD_FEM_VHIRESP	CASES	HELD_MAL_ADRCASE	CASE	CASES
OHOP	ALL.A	FEM_A	FEM	PEM_A	ALL.A	FEM	L AD	MALA	L_AD	IL_ADR	MAL A	L AD	L AD	L AD	VIIV.	MALA	FEM	M_ADR	MAL_A	L_ADI	MADE
COHORT A	HELD	HELD	CTEH	HELD	CTEH.	HELD	HELD_MAL_ADRCASESULN	THEED	HELD_MAL_ADRCASE3ULN	HBLD_MAL_ADRCASESULN	HBLD	HELD_MAL_ADRCASESULN	HELD_MAL_ADRCASESULN	HELD_MAL_ADRCASEBULN	HELD	HELD	QIEL Q	HELD_FEM_ADRCASESULN	HELD	HELD MAL ADRCASEBULN	HELD_FEM_ADRCASESULN
24	0	0	Ü	v	U	U	H	4	A	Ð	0	E O	E O	E 5	0	E	F	E O	U	D D	C
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Linghe Al A2	12031	12031	12032	12032	12032	12032	12148	12148	12148	12207	12207	12207	12399	12399	12399	12554	12554	12851	12851	13025	13025

922 B		Г																			
B.	2	0	0	1	0	0	0	1	13	27	6	1	-	2	2	2	-	1	4	9	7
F012 F	16	21	21	44	21	.22	22	46	24	46	35	12	5	13	22	22	12	39	20	44	26
FOIT	21	38	38	84	38	98	98	83	34	99	9	22	11	20	45	45	41	231	46	180	220
HOZBIRON	20	21	17	46	21	22	22	48	20	100	53	14	7	17	26	26	14	41	28	56	70
FOLB	58	26	26	212	26	94	94	212	92	178	47	95	27	113	112	112	94	501	112	404	496
B.	39	59	65	129	65	85	88	130	71	139	20	35	17	99.	69	69	54	271	70	230	283
и проножу	HELD_ALL_CTRL	HELD_MAL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_ULORESP	HELD_FEM_VLORESP	HELD_MAL_ADRCTRL	CVD_FEM_CTRL	HELD_FEM_VLORESP	HELD_FEM_ULORESP	HELD FEM ADRCTRL	HELD_FEM_ADRCTRL	HELD_MAL_ADRCTRL	HELD_FEM_LORESP	HELD_FEM_ADRCTRL	HELD_FEM_LORESP	HELD_FEM_LORESP
F022	6	د		က	4	3	1	3	3	19	∞	0	4	3	3	9	0	2	0	3	4
FQD2	18	m	2	11	16	ω,	2	11	29	71	42	λ,	13	17	12	2.6	٥	57	15	8	76
FOLL A	16 .	11	9	33	41	01	5	33	23	58	0	56	4	28	12	32	8	208	54	168	188
N CO2	36	6	4	17	24	6	4	17	35	109	58	5	21	23	18	38	16	19	15	75	84
S	20	25	14	11	86	23	12	11	75	187	42	57	21	73	36	8	0	473	123	405	452
SIZIE ROI	43	17	6	47	19	16	∞	47	55	148	20	31	21	48	27	29	_∞	267	69	240	268
V_ROHOEL V	HELD_ALL_CASE	HELD_MAL_ADRCASE3ULN	HELD_MAL_ADRCASESULN	HELD_ALL_ADRCASE3ULN	HELD_MAL_ADRCASE	HELD_MAL_ADRCASE3ULN	HELD_MAL_ADRCASESULN	HELD_ALL_ADRCASE3ULN	HELD_FEM_UHIRESP	HELD_FEM_VHIRESP	HELD_MAL_ADRCASE	CVD_FEM_CASE	HELD_PEM_VHIRESP	HELD_FEM_UHIRESP	HELD_FEM_ADRCASE3ULN	HELD_FEM_ADRCASE	HELD_MAL_ADRCASESULN	HELD_FEM_HIRESP	HELD_FEM_ADRCASE	HELD_FEM_HIRESP	HELD_FEM_HIRESP
₹	G B	T	T C	T C	T C	GA	G B	GA	G B	G B	G B	GA	V C	G A	C	T	GA	CT	TC	T C	TC
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- OBJSSNF ALLAZ	13191	13192	13192	13192	13192	13193	13193	13193	13338	13338	13339	13339	13340	13479	13633	13633	13929	14065	14083	14085	14087

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19020 B.	5	48	0	0	0	12	5	17	13	13	7	7	6	2	01	15	15	1	1	0	0
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1001	21	107	209	101	52	47	22	181	53	53	25	25	52	22	35	<i>L</i> 9	<i>L</i> 9	17	34	25	47
RO3 B	40	222	64	34	17	81	38	121	74	74	39	39	70	42	30	54	54	2	7	6	10
FOI B	72	340	482	236	121	151	72	449	154	154	75	75	156	9/	8	158	158	34	22	59	104
B.	26	281	273	135	69	116	55	285	114	114	57	57	113	59	55	106	106	18	9	34	57
	HE.	BSP	ESP	ESP	BSP	TEC.	TRE	ESP	TEL.	132	TRL.	TRL	TRL	TRL	J.E.	TRL	TRL	22	긆	8	E.
B. W.	_ADRCTRL	HELD_FEM_LORESP	HELD_FEM_LORESP	HELD_FEM_VLORESP	HELD_FEM_ULORESP	HELD_ALL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_FEM_LORESP	HELD_ALL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	L_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	HELD_ALL_ADRCTRL	HBLD_MAL_CTRL	HELD_ALL_CTRL	HELD_MAL_GOOD	HELD_MAL_ADRCTRL
COHOR	HBLD MAL	ILD_FE	ILD_FE	LD_FEN	LD_FEN	LD_ALI	D_MA	ALD FIE	LD_ALI	LD_ALI	CD_FEEN	LD_FIBN	HBLD ALL	LD_FEN	ED_FER	ID AL	LD_ALI	IBLD N	TELD A	ELD M	LD_MA
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T V	9	123	192	103	35	18	7	191	16	25.	2	15	38	18	34	65	29	∞	78	٥	15
MONAL MAN HOUS THOSE	9	181	83	40	22	41	41	8	42	32	=	23	103	99	31	50	2	4	15	=	0
W-1001	12	361	445	234	84	53	18	454	34	58	21	35	133	89	35	172	99	20	71	27	30
SIZE	6	271	264	137	53	47	16	272	24	45	16	23	118	19	හ	111	38	12	43	. 61	15
	SULN	e,	e e	SP	SP	BULN	BULN	es.	SULN	BULN	SULN	BULN	SE	SE	SE	SE	BULN	<u></u>			BULN
V_Ta	DRCASE	M_HIRE	M HIRE	VHIRE	CUHIRE	DRCASE	DRCASI	M HIRE	DRCASE	DRCASE	DRCASI	DRCASE	ADRC/	ADRC	ADRC	ADRC	DRCASE	AL_CAS	LL_CAS	IAL BAI	DRCAS
<u> У гаоноэ</u>	HELD_MAL_ADRCASESULN	HELD FEM HIRESP	HELD_FEM_HIRESP	HELD_FEM_VHIRESP	HELD_FEM_UHIRESP	HELD_ALL_ADRCASESULN	HELD_MAL_ADRCASE3ULN	HELD FEM HIRESP	HELD_ALL_ADRCASESULN	HELD_ALL_ADRCASESULN	HELD_FEM_ADRCASESULN	HELD FRM ADRCASESULN	HELD ALL ADRCASE	HELD FEM ADRCASE	HELD FEM ADRCASE	HELD_ALL_ADRCASE	HELD ALL ADRCASESULN	HELD_MAL_CASE	HELD_ALL_CASE	HELD MAL BAD	HBLD_MAL_ADRCASE3ULN
	HELD	開	H	開	田田	HELD	HELD	出	OTHER.	CTEH	CIEH	HELD	田田	開	HEI	田田	HELD	H			CIEN
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THE STATE OF	32	14102	14103	14103	14103	14129	14129	14326	14503	14503	14503	14503	14537	14537	15015	15915	15915	19289	19289	19289	36958

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F012 B	51	31	13	28	55	78	7	5	2	0	3	4	2	13	22	13	20	41	21	21	70
FOI19	53	23.	09	35	65	35 .	18	11	7	09	26	232	36	70	19	19	26	59	33	33	183
9.8	7.1	39	13	40	73	40	13	6	4	0	7	52	12	19	52	37	36	19		-	96
B FQ2B		E.					_	ŀ	_	_		_	_		5	3	3	_	31	31	\vdash
S S	157	11	133	86	185	86	43	27	16	120	55	208	82	153	09	51	72	159	_ 87	87	436
SIZE B	114	88	73	69	129	69	28	18	2	8	31	280	47	98	95	44	24	113	. 29	59	566
	TR.L.	TRL	BSP	TEL.	IZ.	TRL	J	J	J	TRL.	,	SP	IRL	E.	TRL	IRL	E.	暑	骂	뙲	ds.
COHORTA	HELD_ALL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ULORESP	HBLD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	HBLD_FEM_ADRCTRL	CVD_ALL_CTRL	CVD_FEM_CTRL	CVD_MAL_CTRL	ADRC	CVD_ALL_CTRL	HELD_FEM_LORESP	ADRC	HBLD_ALL_ADRCTRL	ADRC	ADRC	ADRC	ADRC	ADRC	ADRC	HELD_FEM_LORESP
OHO.	ALL	FEIM	FEM	FEM	ALL.	FEM	D_ALI	D_FEN	MA	MAL	D_ALI	FEM	FEM	ALL	MAL	FEM	MAL	ALL	FBM	FEM	FEM
	HELD	HELD	HELD	ELD.	HELD	HELD	ડે	ร	5	HELD_MAL_ADRCTRL	ડે	田田	HELD_FEM_ADRCTRL	HELD.	HELD_MAL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_MAL_ADRCTRL	HELD_ALL_ADRCTRL	HBLD_FBM_ADRCTRL	HELD_FEM_ADRCTRL	HELD
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F.00	139	70	98	19	32	35	101	33	89	17	66	526	12	26	13	29	78	161	83	15	469
	122	99	53	17	26	31	53	17	36	6	57	282	6	17	19	61	52	117	65	47	266
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	DRCAS	DRCAS	HIRES	CASES	CASES	CASES	CASE	CASE	CASE	CASES	CASE	HIRESP	CASES	CASES	CASE3	CASE3	DRCAS	SECAS:	DRCAS	CASES	IRESP
COHORTA	HELD_ALL_ADRCASE	FEM A	HELD_FEM_UHIRESP	M_ADR	LADR	M_ADR	CVD_ALL_CASE	CVD_FEM_CASE	CVD_MAL_CASE	LADR	CVD_ALL_CASE	HELD FEM HIRESP	M ADR	L ADR	LADR	A ADR	MAL_A	ALL A	EM A	4_ADR	HELD_FEM_HIRESP
გ	E C	HELD_FEM_ADRCASE	HELD	HELD_FEM_ADRCASESULN	HBLD_ALL_ADRCASESULN	HELD_FEM_ADRCASESULN	CAT	5	S	HELD_MAL_ADRCASESULN	5	E C	HELD_FEM_ADRCASESULN	HELD_ALL_ADRCASESULN	HELD_MAL_ADRCASE3ULN	HELD_FEM_ADRCASE3ULN	HELD_MAL_ADRCASE	HELD_ALL_ADRCASE	HELD FEM ADRCASE	HELD_FEM_ADRCASESULN	THEFT
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SELVSIND.		58	99	12	12	12	57		57							 	51	T	1		
hays	37158	37158	37160	37412	37412	37412	37457	37457	37457	37704	38959	38959	39292	39292	39698	39756	39951	39951	39951	39951	40466
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9 B	16	37.	28	24	37	22	23	15	∞	12	51	57	32	29	26	76	28	28	25	15	15
FOLSE	47	91	27	15	24	116	62	. 28	34	43	4	61	18	32	56	26	32	32	54	24	24
#02 B	28	51	36	28	53	22	27	15	12	14	66	16	48	43	36	36	38	38	81	35	35
FØ1 B	110	219	82	54	85	254	147	71	76	86	139	179	89	93	78 ·	78	92	92	163	63	83
STATE	69 .	135	65	99	69	138	87	43	44	99	119	135	58	89	22	57	92	65	122	49	49
COHORT B. C.	HBLD_FEM_ULORESP	HELD_FEM_VLORESP	HELD_MAL_ADRCIRL	HELD_MAL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_VLORESP	HELD_ALL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_MAL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_VLORESP	HELD_MAL_ADRCTRL	HELD_FEM_ULORESP	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD FEM ADRCTRL	HELD_ALL_ADRCTRL	HBLD_MAL_ADRCTRL	HELD_MAL_ADRCTRL
	HBL	題	HEL	HELI	HEL	囲	HEL	HELL	HBL	HEL	HEL	開	HEL	HEL	HEL	HEL	HEL	HEL	HEL	HBL	HELI
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	41	106		23	16	143	15	7	∞	∞	6	64	6	16	16	7	18	∞	43	13	7
Y COM	=	34	9	45	89	11	0	0	0	16	49	120	7	46	55	27	62	27	106	∞	4
2	93	244	∞	75	62	297	30	14	16	0	39	152	25	28	63	27	92	29	142	56	14
Sizie	52	139	9	9	65	154	15	7	∞	∞	4	136	16	52	59	27	99	28	124	17	6
COHORTA	HELD_FEM_UHIRESP	HELD_FEM_VHIRESP	HELD_MAL_ADRCASESULN	HELD_MAL_ADRCASE	HBLD_FEM_ADRCASE	HELD_FEM_VHIRESP	HELD_ALL_ADRCASESULN	HBLD_MAL_ADRCASESULN	HELD_FEM_ADRCASESULN	HELD_MAL_ADRCASESULN	HBLD_ALL_ADRCASE3ULN	HELD_FEM_VHIRESP	HBLD_MAL_ADRCASE3ULN	HELD_FEM_UHIRESP	HELD_FEM_ADRCASE	HBLD_FBM_ADRCASB3ULN	HELD_FEM_ADRCASE	HELD_FEM_ADRCASEJULN	HELD_ALL_ADRCASE	HELD_MAL_ADRCASE3ULN	HBLD_MAL_ADRCASESULN
77.	G T	G T	A G	T	CA	C T	A G	A G	A G	T	TC	CA	CA	CA	CT	C T	G A	G A	A G	TC	TC
Whatship At A2	40466	40466	44442 /	55504	55542 (92920	55736 1	55736 · 1	55736	55748	55813	55845 (55845	55845 (55923 (55923 (55945 (55945	55945 (26007	20095

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FQ12	12	38	51	51	78	78	37	37	37	-			128	-	31	30	30	53	53	21	28
SIZE FOIR FOLE ROLL	108	34	41	41	20	20	14	14	14	44	44	4	88	35	27	14	. 14	56	26	51	211
FQ2/B	12	46	25	95	84	48	53	53	53	21	21	21	226	41	49	42	42	83	83	25	89
FOI B	228	106	133	133	89	89	65	65	65	88	68	68	304	71	85	58	58	105	105	123	480
SIZZE.	120	92	114	114	58	58	59	59	59	55	55	55	265	56	29	20	50	94	24	74	274
Соновув	HBLD_ALL_ADRCTRL	HELD_FEM_ULORESP	HBLD_ALL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_MAL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_FEM_LORESP	HBLD_MAL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HBLD_ALL_ADRCTRL	HBLD_ALL_ADRCTRL	HELD_FEM_ULORESP	HELD_FEM_LORESP
FO12 FO22	0	12	Ξ	16	∞	12	21	∞	9	0	0	4	30	3	7	∞	70	11	30		4
EQ12	٥	26	و	Ξ	23	æ	26	10	2	0	0	0	126	0	17	17	33	22	5.4	9	38
FO2'X FO11	24	18	7	18	4	21	23	13	7	13	8	47	108	14	9	-	6	3	21	20	243
F02.4	0	20	28	43	21	32	89	56	17	26	16	∞	186	9	31	33	73	4	114	∞	46
ROITA	48	29	20	47	13	28	72	36	19	0	0	94	342	28	29	19	51	28	%	106	524
SIZE	24	95	24	45	17	30	70	31	18	13	∞	51	264	17	30	26	79	36	105	57	285
COHORT A	HELD_ALL_ADRCASBSULN	HELD_FEM_UHIRESP	HELD_ALL_ADRCASESULN	HELD_ALL_ADRCASE3ULN	HELD_FEM_ADRCASESULN	HELD_FEM_ADRCASE3ULN	HELD_FEM_ADRCASE	HELD_FEM_ADRCASE3ULN	HELD_FEM_ADRCASESULN	HBLD_MAL_ADRCASE3ULN	HELD_MAL_ADRCASESULN	HELD_MAL_ADRCASE	HELD_FEM_HIRESP	HELD_MAL_ADRCASE3ULN	HELD_FEM_ADRCASESULN	HELD_FEM_ADRCASE3ULN	HBLD_FEM_ADRCASE	HELD ALL ADRCASEBULN	HELD_ALL_ADRCASE	HELD_FEM_UHIRESP	HELD_FEM_HIRESP
A1 A2	A G	GA	G	G T	G T	G	F C	T C	TC	G G	A G	G A	TC	TC	TC	G A	G B	A D	G G	T	T C
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baySMP A1 A2	56011	56104	56113	56113	56113	56113	56636	56636	56636	99995	99995	99999	26667	29995	29995	26780	56780	56780	26780	56876	. 56876

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1015 1015	32	51	44	22	==	4	36	14	17	73	18	40	92	20	20	32	п	20	29	15	2
100	108	53	81	41	16	7	34	51	33	176	43	87	172	42	33	14	28	65	31	26	63
EO2 Briton	38	91	80	46	21	œ	48	18	23	105	32	56	104 401	32	28	48	55	110	61	17	4
T. P.	248	157	506	104	43	18	104	116	83	425	104	214	420	<u>\$</u>	98	09	57	180	16.	127	128
SUZZE, JIPO	143	124	143	75	32	13	9/	<i>L</i> 9	53	265	89	135	292	89	57	54	26	145	76	72	99
	SSP	Æ	3SP	3SP		,	3SP	E	喜	SP.	SSP	3SP	₽ B	SSP	图	<u>1</u> 3	骂	SSP	SSP	SSP	<u> </u>
A L	HELD_FEM_VLORESP	HBLD_ALL_ADRCTRL	HBLD_FEM_VLORESP	HBLD_FEM_ULORESP	CVD_ALL_CTRL	CVD_MAL_CTRL	HELD_FEM_ULORESP	HBLD_FEM_ADRCTRL	HELD_MAL_ADRCTRL	HELD_FEM_LORESP	HELD_FEM_ULORESP	HELD_FEM_VLORESP	HELD_FEM_LORESP	HELD_FEM_ULORESP	HELD_MAL_ADRCTRL	HBLD_MAL_ADRCTRL	HBLD_MAL_ADRCTRL	HELD_FEM_VLORESP	HELD_FEM_ULORESP	HELD_FEM_ULORESP	HELD_FEM_ADRCTRL
COHORT B	FEM	_ALL	FEM	FEM	VD_AL	D_MA	FEM	FEM	MAL	D FEW	FEM	FEM	D FEN	PEM	MAL.	MAL	MAL.	D FEM	D_FEM	D FEM	FEM
	HELL	HBL	HBC	HBL	ບ	บ	HBIT	HBL	HELL	H	HBL	HBL	圉	HEC	HELI	HELL	HELL	HEL	HEL	HEL	HELL
	1	1	12	3	1	0	13	2	0	2	0	-	3	0	0	21	12	13	3	3	3
F012	21	œ	20	26	21	14	19	Ξ	7	69	13	38	11	14	3	22	0	11	30	17	16
TO A	132	17 .	89	25	35	25	23	17	13	194	89	198	187	38	13	13	2	59	23	32	47
₩	23	2	46	32	23	14	45	15	2	73	13	9	83	41	3	20	24	Ξ	36	23	22 .
	285	42	206	9/	16	8	65	45	28	457	16	238	451	8	29	84	101	195	76	81	110
	54	56	150	54	57	39	55	30	15	597	52	139	267	52	16	56	17	153	56	52	8
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4 ,	IIRESP	ASESUI	IIRESP	IRESP	ASB	ASB	IIRESP	ASE3U	ASESU	IRESP	IIRBSP	IRESP	IRESP	IIRESP	ASESU	RCASE	ASBOU	HRESP	IIRESP	IIRESP	RCASE
COHORLA	EM_VI	ADRO	EM VI	TEW CIT	CVD_ALL_CASE	CVD_MAL_CASB	EW CI	- ADRC	ADR	HELD FEM HIRESP	EM U	EM VI	HELD FEM HIRESP	D ME	ADR	W. M	ADR	TEM V	EW CI	EM U	EM_AL
Ö.	HELD FEM VHIRESP	HELD_ALL_ADRCASESULN	HELD FEM VHIRESP	HELD FEM UHIRESP	CYD	ckp C	HELD_FEM_UHIRESP	HBLD_FEM_ADRCASB3ULN	HELD_MAL_ADRCASE3ULN	HELD	HELD_FEM_UHIRESP	HELD FEM_VHIRESP	HBLD	HELD FEM UHIRESP	HELD_MAL_ADRCASE3ULN	HELD_MAL_ADRCASE	HELD MAL_ADRCASESULN	HELD_FEM_VHIRESP	HELD_FEM_UHIRESP	HELD_FEM_UHIRESP	HELD_FEM_ADRCASE
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F022	-	-	2	2	2	1	1	1	3	4	21	21	43	6	3	4	3.	3	17	29	29
FOI.	7	7	. 12	12	12	4	4	4	14	15	0	0	132	30	16	33	16	28	36	49	64
FOLT	63	63	108	108	108	99	99	99	112	35	38	38	106	22	40	91	40	4	19	39	39
EO: B FO2:B FO17' FO12' 	4	4	16	16	16	9	9	9	20	23	42	42	218	48	22	41	22	34	0/	122	122
OI B	128	128	228	228	5 28	136	136	136	238	85	76	9/	344	74	96	215	96	116	74	142	142
B.	99	99	122	122	122	71	71	71	129-	22	59	65	281	19	59	128	59	75	72	132	132
	35	IR.	IRL	IRL	IRL	TRL	FR	TRL	喜	五	35	E E	SP	뙲	5	ĮŽ.	TR.	SSP	<u> </u>	幫	E E
a 11	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRI	HELD_ALL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_FEM_LORESP	HELD_FEM_ADRCTRL	HBLD_MAL_ADRCTRL	HELD_ALL_ADRCTRL	HBLD_MAL_ADRCTRL	HELD_FEM_ULORESP	HBLD FEM ADRCTRL	HELD_ALL_ADRCTRL	HELD_ALL_ADRCTRL
Соновтв	YEM.	PEM.	D_ALL	D_ALL	D_ALL	FEM	FEM	FEM	ALL,	MAL	MAL	MAL	D FEW	FEM	MAL	ALL	MAL	FEM	FEM	ALL,	ALL
	HEC	HBL	HEL	開	HEL	HEL	HBL	HELI	HEL	HELI	HELL	HELI	HEL	HELI	HBLI	HBL	HBLI	HELL	HELI	HELI	HELI
F022		0	9	0	1	6	-	0	9	0	-	1	33	9	0	7	4	0	14	17	6
	6	9	24	æ	12	14	و	4	21	0	٥	0	117	24	٥	8	-	14	14	24	14
FOOT.	20	21	94	17	34	20	20	01	86	9	15	7	139	38	6	31	==	40	6	7	3
4	. 11	9	36	∞	14	8	∞	4	33	12	2	7	183	36	18	22	6	41	42	28	32
F61-3/ F02	65	56	212	42	08	114	46	24	217	0	30	41	395	100	0	8	23	8	20	38	707
	30	16	124	25	47	29	27	41	125	9	16	®	289	89	6	46.	16	54	31	84	56
53	N I	N S	E)	N D	N 15	p)	N J J	N D	B	N IS	NE	NE		121	NIS	OLN	N S		N 15	N S	N. F.
A_F	RCASE	RCASES	ADRCAS	RCASES	RCASES	ADRCAS	RCASE	RCASES	DRCAS	RCASBS	RCASE	RCASES	HIRESP	ADRCAS	RCASES	RCASES	RCASE3	CHIRES	RCASES	CASE3	CASES
COHORT	EM AD	EM_AD	HELD_ALL_ADRCASE	IL AD	LL_AD	HELD FEM ADRCASE	EM AD	EM AD	HBLD_ALL_ADRCASE	AL_AD	(AL_AD)	AL_AD	HELD FRM HIRESP	HELD_FEM_ADRCASE	AL_AD	IL ADI	AL_AD	HELD_FEM_UHIRESP	EM_ADI	II AD	LL_ADI
	HELD_FEM_ADRCASESULN	HELD_FEM_ADRCASESULN	HELL	HELD_ALL_ADRCASESULN	HELD_ALL_ADRCASE3ULN	HELL	HBLD_FEM_ADRCASEBULN	HBLD_FEM_ADRCASESULN	HELL	HELD_MAL_ADRCASESULN	HELD_MAL_ADRCASESULN	HELD_MAL_ADRCASESULN	囲	HELD	HELD_MAL_ADRCASESULN	HELD_ALL_ADRCASE3ULN	HELD_MAL_ADRCASE3ULN	HELL	HELD_FEM_ADRCASE3ULN	HELD_ALL_ADRCASE3ULN	HELD_ALL_ADRCASESULN
77	3	H	C T	CI	H	H	H	C	H	₹	Ö	ပ	H	Ö	⋖	⋖	⋖	¥ ;	Ö	Ö	5
4	1	S			D Is	O	O		O	D	T	H	O	4	O	U	U	O	4	4	¥
* bassing	58525	58525	58525	58525	58525	58533	58533	58533	58533	58544	58716	58716	58736	58808	58809	58809	58809	58809	58886	58886	58886

C-76																			 ,		
CO 1	9	17	2	9	20	∞	70	12	Ξ	23	23	11	11	8	27	52	er	∞	16	6	4
CLOJI H	21	48	13	21	. 28	13	28	15	20	0	0	48	48	27	46	24	34	22	54	8	30
FOIL	27	48	4	27	70	34	70	36	69	32	32	37	37	16	46	94	31	26	55	11	35
roje L	33	82	17	33	89	29	89	39	72	46	46	70	70	43	100	201	40	38	86	26	38
FQLB	75	144	21	75	168	81	168	87	188	64	2	122	122	59	138	285	96	74	164	30	100
	54	113	19	54	118	55	118	63	130	55	55	96	96	51	119	243	89	26	125	78	69
	CTRL	CTRL	RL	CTRL	CIRL	CTRL	CIRL	CIRL	CIRL	CTRL	CTRL	CIEC	CIRL	CIRL	RESP	ZESP.	RESP	CTRL	CTRL	RT.	CIRL
HORT	AL_ADR	L_ADR	CVD_FEM_CTRL	AL_ADR	L_ADR	AL_ADR	LADR	M_ADR	L_ADR	AL_ADR	AL_ADR	L_ADR	L_ADR	M_ADR	M_VLO	EM_LOI	M_ULO	AL_ADR	L_ADR	CVD_MAL_CTRL	MADR
FICOHORY	HBLD_MAL_ADRCTRL	HELD_ALL_ADRCTRL	CVD_I	HELD_MAL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_MAL_ADRCTRL	HBLD_ALL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	HBLD_MAL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_ALL_ADRCTRL	HBLD_ALL_ADRCTRL	HELD FEM ADRCTRL	HELD_FEM_VLORESP	HELD_FEM_LORBSP	HELD_FEM_ULORESP	HELD_MAL_ADRCTRL	HELD_ALL_ADRCTRL	CVD_	HELD_FEM_ADRCTRL
7			5		7 H	4 H	11 H	S H	9	7 H	11 H	26 H	10 H	70 E	17 H	34	15 H	3 H		7	15 H
10022 1	5	. 7	<u>"</u>	2		_	-				Ľ	7	-	2		3	-	<u> </u>	7		
CONTINUE OIL	œ	==	S	5	6	9	13	S	12	0	0	35	٥	12	89	122	81	37	17	22	78
	2	4	∞		9	6	17	4	∞	-	2	34	13	15	36	2	17	18	48	31	23
	18	25	15	6	23	14	35	15	24	41	77	87	29	22	102	190	48	43	85	36	88
8	12	19	21	7	21	.12	47	13	28	2	01	103	39	47	140	290	52	73	167	28	74
213	15	22	18	80	22	13	41	14	26	000	16	95	34	52	121	240	80	58	126	09	99
	HELD_MAL_ADRCASEBULN	HELD_ALL_ADRCASESULN	CASE	HBLD_MAL_ADRCASESULN	HRLD_ALL_ADRCASESULN	HELD_MAL_ADRCASEBULN	HBLD_ALL_ADRCASE3ULN	HELD_FEM_ADRCASESULN	HBLD_ALL_ADRCASESULN	HELD_MAL_ADRCASESULN	HELD_MAL_ADRCASEBULN	HELD_ALL_ADRCASB	HELD_ALL_ADRCASE3ULN	HELD_FEM_ADRCASE	HIRESP	HIRESP	HIRESP	HELD_MAL_ADRCASE	HELD_ALL_ADRCASE	CASE	HELD_FEM_ADRCASE
A_TAOHOO	WL_AD	IL ADR	CVD_FEM_CASE	WL AD	IL ADR	WL ADR	IL_ADR	EM_ADR	IL ADR	(AL_ADR	M. ADR	VALL A	IL ADR	PEM A	HELD_FEM_VHIRESP	HBLD FEM HIRESP	HELD_FEM_UHIRESP	MALA	ALLA	CVD_MAL_CASE	FEMA
00	HELD	HELD A	ช	HELD	HELD	HELD M	HELD_A	HELD F	HBLD_A	HELD_M	HELD M	HELL	HELD	HELD	HELL	田田	HBLI	HELD	HELL	ि	HELL
2	H	H	H	H	Ø	O	O	O	⋖	0	O	⋖	⋖	⋖	Н	H	Ö	v	ပ	Ö	Ü
200	Ü	O.	O	C	4	₹	∢	¥	ß	Ö	O	O	Ø	Ö	U	U	H	H	H	H	H
ANS STATE OF	58926	58926	58926	58926	\$8968	58968	58968	58968	58985	59113	59113	59236	59236	59236	59237	59237	59267	59352	59352	59363	59368

FQ22	15	9	2	2	12	7	1	1	19	25	18	24	5	∞	5	0	2	15	21	0	0
FO17	78	36	8	8	9\$	53	5	5	42	9/	41	8/	12	58	25	6	11	59	111	4	3
FOIT	43	26	48	48	27	6	92	99	17	46	19	44	16	193	100	20	26	206	134	111	26
F02.B	108	84	12	12	08	43	7	7	08	126	11	126	22	74	35	6	15	68	153	4	3
FQ1 B	1 <u>8</u> 1	88	104	104	110	47	135	135	9/	168	79	166	4	4	225	109	205	471	379	226	115
azis	136	89	28	28	95	45	17	17	78	147	78	146	33	259	130	59	110	280	566	115	59
соновт в	HELD_FEM_VLORESP	HELD_FEM_ULORESP	HELD_MAL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_FEM_ADRCTRL	HBLD_FEM_ADRCTRL	HELD_FEM_ULORESP	HELD_FEM_VLORESP	HELD_FEM_ULORESP	HELD_FEM_VLORESP	HELD_MAL_GOOD	HELD FEM LORESP	HBLD_FEM_VLORBSP	HELD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_LORESP	HELD_FEM_LORESP	HELD_ALL_ADRCTRL	HBLD_FEM_ADRCTRL
F025	36	14	9	7	5	m	-	0	∞	18	∞	19	0	2	2		2	33	36	0	0
10.00 10.00	57	16	=	4	٣	_	20	3	21	99.	21	99	m	31	15	٥	0	\$3	113	0	o
FOIT A	48	22	38	=	11	٣	77	12	56	89	26	99	42	219	113	41.	21	228	120	119	8
V	129	4	23	∞	13	7	2	2	37	102	37	104	٣	35	19	2	4	61	185	0	0
F01	153	99	8.7	92	25	7	52	29	73	204	73	198	31	469	241	78	42	511	353	238	128
SIZE	141	52	55	17	19	7	31	17	55	153	55	151	17	252	130	15	23	286	269	119	द्व
V_T30HOO	HELD_FEM_VHIRESP	HELD_FEM_UHIRESP	HELD_MAL_ADRCASE	HELD_MAL_ADRCASE3ULN	HELD_ALL_ADRCASESULN	HELD_MAL_ADRCASESULN	HELD_FEM_ADRCASE3ULN	HELD_FEM_ADRCASESULN	HELD_FEM_UHIRESP	HELD_FEM_VHIRESP	HELD_FEM_UHIRESP	HELD_FRM_VHIRESP	HELD_MAL_BAD	HELD_FEM_HIRESP	HELD FEM VHIRESP	HBLD_FEM_ADRCASESULN	HELD_ALL_ADRCASESULN	HELD_FEM_HIRESP	HELD_FEM_HIRESP	HELD_ALL_ADRCASE	HELD_FEM_ADRCASE
651 A.2	C	⊬. ບ	C F	CT	C H	T L	C G	ပ ပ	F G	T G	GA	GA	TG	G A	GA	G B	GA	TC	T G	A	A G
- DaySNP	59371	59371	59372	59372	59443	59443	080006	080006	900102	900102	900111	900111	900117	900118	900118	900118	900118	900120	900121	900123	900123

å Ö: ₩	20	9	0	0	0	0	0	3	4	12	9	5	7	6	4	6	3	0	32	0	-
MOTE I	178	15	9	01	2	2	25	4	16	46	29	7	21	29	2	∞	12	138	104	13	3
BOIL B	55	37	34	115	34	111	42	15	34	61	31	20	œ	24	6	14	23	123	138	18	27
	218	27	9	10	5	10	25	10	24	0/	41	17	35	47	10	56	18	138	168.	13	5
HOLD FOLE	288	89	74	240	. 73	232	109	34	84	168	91	47	37	11	20	36	58	384	380	49	57
	253	28	40	125	39	121	<i>L</i> 9	22	22	119	99	32	36	79	15	31	38	261	274	31	31
COHOM B	HELD_FEM_LORESP	HBLD_FEM_ADRCTRL	CVD_FEM_CTRL	HELD_ALL_ADRCTRL	CVD_FEM_CTRL	HBLD_ALL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_CTRL	HBLD_MAL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_MAL_GOOD	HELD_FEM_GOOD	HBLD_FEM_ADRCTRL	CVD_FEM_CTRL	CVD_ALL_CTRL	CVD_FEM_CTRL	HELD_FEM_LORESP	HELD_FEM_LORESP	CVD_MAL_CTRL	HELD_FEM_ADRCTRL
77 Y	56	0	0	0	1	0	2	0	0	-	-	7	1	0	0	-	8	0	30	∞	0
7794 1708 1704 1708	192	23	0	0	0	0	∞	10	19	12	9	7	3	6	4	10	11	110	142	32	
10 V (Cat. Babe a	31	44	28	56	.29	25	7	20	. 68	31	21	5	∞	14	7	10	9	160	111	29	45
The Change of th	244	23	0	0	7	0	12	10	19	14	80	21	5	6	4	12	17	110	202	48	-
north a	254	Ξ	26	52	28	20	22	80	6	74	48	12	61	37	∞	30	23	430	364	8	82
STZIE	249	19	78	792	8	25	17	99	28	4	78	81	12	23	9	21	8	270	283	69	43
СОВОЕТ	HELD FEM HIRBSP	HELD_FEM_ADRCASE	CVD_FEM_CASE	HELD_ALL_ADRCASESULN	CVD_FEM_CASE	HELD_ALL_ADRCASESULN	HELD_FEM_ADRCASESULN	HELD FEM CASE	HELD_MAL_ADRCASE	HELD_ALL_ADRCASE3ULN	HELD_FEM_ADRCASE3ULN	HELD MAL BAD	HELD FEM BAD	HELD FEM ADRCASEBULN	CVD_FEM_CASB	CVD_ALL_CASB	CVD_FEM_CASE	HBLD_FEM_HIRESP			盟
A A	. A	T C	A G	A G	GT	G T	A G	A G	A G	T C	T C	C					→			_	
PaySNE	900124	900132	900144	900144	900145	900145	900146	900146	_	900147	1	\top	十	900196	900196	900196	000000	900204	900205	900205	900223

F 0.22	0	0	2	11	1	1	56	= 1	11	2	6	2	2	11	6
HO12	18	10	22	38	11	14	125	22	22	21	1	21	21	22	1
FOLE	108	47	48	23	57	45	124	66	66	49	20	49	49	66	50
F02-B	18	10	26	09	13	16	177	4	44	25	19	25	25	44	19
FOI B	234	104	118	84	125	104	373	220	220	119	101	119	119	220	101
SIZZE	126	22	72	72	69	09	275	132	132	72	09	7.5	72	. 132	09
COHORT B	HELD_ALL_ADRCTRL	HELD_MAL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_MAL_ADRCTRL	HELD_FEM_LORESP	HELD_ALL_ADRCTRL	HELD_ALL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_MAL_ADRCTRL	HELD_FEM_ADRCTRL	HELD_FEM_ADRCTRL	HELD_ALL_ADRCTRL	HELD_MAL_ADRCTRL
F022	0	0	0	4	0	0	43	0	0	0	0	0	0	∞	0
. FOR 2	0	0	_	_ش	12	0	66	0		C.	0	2	3	2	0
A FOLL	23	15	16	10	19	6	134	56	45	17	17	63	28	118	6
FO2 A	46	30	1	11	12	0	185	52	3	34	34	10	3	56	18
FOI &	0	0	33	23	20	18	367	0	93	0	0	136	59	246	0
	23	15	17	17	31	6	276	56	48	17	17	73	31	136	6
IS VIAOBOO	HELD_ALL_ADRCASESULN	HELD_MAL_ADRCASE3ULN	HELD_FEM_ADRCASESULN	HELD_FEM_ADRCASESULN	HELD_FEM_ADRCASE3ULN	HELD_MAL_ADRCASESULN	HELD_FEM_HIRESP	HELD_ALL_ADRCASESULN	HBLD_ALL_ADRCASE3ULN	HELD_FEM_ADRCASESULN	HELD_MAL_ADRCASE3ULN	HELD_FEM_ADRCASE	HELD_FEM_ADRCASE3ULN	HELD_ALL_ADRCASE	HELD_MAL_ADRCASESULN
N.1. A.2	₽ G	G A	A C	T	CT	C	C G	၁ ၅	S G	၁ ၅	ည ၅	O C	<u>၁</u>	O O	ည ၅
Paysing.	900225	900225	900227	900233	900236	900236	900241	900242	900242	900242	900242	900242	900242	900242	900242

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Table 5b p-values of PA SNPs

A SNP is considered as associated to cardiovascular disease, adverse statin response or to efficacy of statin treatment, respectively, when one of the p values is equal or below 0.05.

BAYSNP.	COMPARISON /	CIYER	GTYPE	GTYPE	ALLERE.	ALLELE	ALLELE
		CPVAL	XPVÅL	ERPVAI'	nCPVAL.	XPVAL	INTVAL
29	HELD_FEM_LIP	0,0996	0,0983	0,0976	0,0441	0,0533	0,0438
29	HELD_ALL_ADR3ULN	0,0483	0,0484	0,0493	0,1053	0,1185	0,1048
29	HELD_ALL_LIP	0,0912	0,0952	0,091	0,0503	0,0625	0,05
52	HELD_ALL_CC	0,0112	0,0128	0,0099	0,0015	0,0023	0,0014
52	HELD_MAL_HDL	0,0237	0,0238	0,0194	0,8213	0,8292	0,8214
52	HELD_FEM_CC	0,0818	0,0956	0,08	0,0293	0,0436	0,0282
52	HELD_MAL_CC	0,1499	0,2053	0,1393	0,0303	0,0547	0,0298
52	HELD_MAL_LIP2	0,1121	0,1133	0,1112	0,0423	0,0429	0,0422
57	HELD_FEM_CC	0,0168	0,008	0,0108	0,0076	0,0106	0,0049
118	HELD_MAL_LIP2	0,1081	0,1089	0,1043	0,0466	0,0501	0,0462
137	HELD_MAL_ADR5ULN	0,0575	0,0872	0,0156	0,0892	0,1027	0,0951
137	HELD_ALL_ADR5ULN	0,0307	0,0274	0,0218	0,2446	0,2504	0,2486
137	HELD_ALL_ADR3ULN	0,034	0,035	0,0255	0,0671	0,0747	0,0686
179	HELD_MAL_ADR5ULN	0,0094	0,0241	0,0154	0,9216	1	0,921
179	HELD_MAL_ADR3ULN	0,0452	0,0479	0,0408	0,5445	0,7636	0,5327
179	HELD_ALL_ADR5ULN	0,0415	0,0537	0,0756	0,7311	0,8135	0,7272
179	HBLD_ALL_ADR	0,0691	0,0447	0,0464	0,2487	0,3013	0,2482
240	HELD_ALL_ADR3ULN	0,1154	0,1318	0,0756	0,04	0,0539	0,0281
240	HELD_MAL_ADR3ULN	0,0641	0,0976	0,0399	0,0835	0,1215	0,0507
241	HELD_ALL_ADR3ULN	0,0987	0,0984	0,1033	0,0237	0,0301	0,0262
241	HELD_ALL_ADR5ULN	0,1495	0,1519	0,1611	0,04	0,0527	0,0464
241	HELD_MAL_ADR3ULN	0,1757	0,2127	0,1775	0,0411	0,055	0,0459
288	CVD_ALL	0,1013	0,1098	0,0863	0,0462	0,0557	0,0441
384	CVD_ALL	0,0214	0,022	0,0205	0,1828	0,1946	0,1831
384	HELD_FEM_CC	0,0793	0,0887	0,0704	0,0214	0,0299	0,021
533	CVD_ALL	0,0955	0,0932	0,0905	0,0387	0,0482	0,0359
542	HELD_FEM_ADR	0,0522	0,0292	0,0417	0,0922	0,1056	0,0907

BAYSNP	\$4comparison	GTYPE	GTYPE	GTYPE	ALLEUR	ALCELE:	ALLELE
		CPVAL	XPVAL	TRPVAL	(GEVAL.	XPVAIL	LRPVAL.
576	HELD_ALL_LIP	0,0349	0,0626	0,0117	0,036	0,0641	0,012
576	HELD_FEM_LIP	0,0403	0,0571	0,0165	0,0416	0,0583	0,017
608	CVD_MAL	0,0031	0,0027	0,002	0,0027	0,0035	0,0035
614	HELD_MAL_HDL	0,0069	0,0113	0,0025	0,0001	0,0001	0
614	HELD_ALL_CC	0,0045	0,0037	0,0031	0,0052	0,008	0,0047
614·	HELD_MAL_CC	0,0694	0,1277	0,0689	0,0102	0,0154	0,0101
614	HELD_MAL_LIP	0,1792	0,254	0,1858	0,0113	0,0153	0,0123
614	CVD_ALL .	0,1654	0,1652	0,1594	0,0202	0,0237	0,0188
614	HELD_FEM_CC	0,031	0,0198	0,0239	0,0446	0,0537	0,0387
738	CVD_ALL	0,0999	0,1019	0,0962	0,0261	0,0303	0,0257
1056	HELD_ALL_HDL	0,1007	0,1082	0,0989	0,0323	0,0468	0,0304
1056	HELD_FEM_LIP	0,0488	0,0518	0,0403	0,0695	0,09	0,0691
1092	HELD_MAL_ADR5ULN	0,0404	0,0443	0,0114	0,6514	0,7766	0,6465
1524	HELD_MAL_CC2	0,0122	0,0142	0,0107	0,0079	0,0113	0,0062
1524	HELD_ALL_LIP	0,0507	0,0381	0,0237	0,0592	0,0717	0,0581
1524	HELD_ALL_CC	0,0681	0,0671	0,0561	0,025	0,0318	0,0248
1574	CVD_MAL	0,0611	0,0678	0,0422	0,3189	0,4133	0,3254
1582	HELD_MAL_ADR3ULN	0,1522	0,1512	0,0956	0,0468	0,0648	0,0295
1657	HELD_FEM_EFF	0,05	0,0604	0,047	0,4599	0,5588	0,459
1722	CVD_MAL	0,013	0,0128	0,0135	0,3717	0,4376	0,3729
1756	HELD_MAL_ADR5ULN	0,0321	0,0857	0,1003	0,0402	0,063	0,068
1757	HELD_ALL_CC	0,02	0,0205	0,0053	0,3618	0,386	0,3603
1757	HELD_FEM_CC	0,0517	0,0569	0,015	0,1242	0,1342	0,1193
1757	HELD_FEM_VEFF	0,1217	0,1247	0,1208	0,0423	0,0505	0,0422
1757	HELD_MAL_ADR	0,0536	0;05	0,0501	0,6703	0,7693	0,6702
1765	HELD_ALL_LIP	0,0466	0,0494	0,0442	0,3068	0,3533	0,3058
1767	HELD_ALL_ADR3ULN	0,0082	0,0075	0,0036	0,0053	0,0066	0,0026
1767	HELD_ALL_ADR5ULN	0,0608	0,0467	0,0302	0,0196	0,0231	0,0086
1767	HELD_MAL_ADR5ULN	0,183	0,216	0,0679	0,075	0,1229	0,0194
1767	HELD_FEM_ADR3ULN	0,0371	0,0348	0,0221	0,0341	0,0408	0,0251
1767	HELD_MAL_ADR3ULN	0,1692	0,1875	0,1061	0,0606	0,0741	0,0334
1837	HELD_ALL_ADR3ULN	0,0408	0,0398	0,0402	0,0225	0,0282	0,0196

ABAYSNP	COMPARISON:	GIVPE	GTYPE	GTYPE	ALL TELE	AMELICA .	ALL CERTS
The state of		CPVAI.	XPVAT	LREVAL.	.CPVA#	XPVAL	LRPYAE
1837	HELD_FEM_LIP	0,0337	0,0356	0,0328	0,3132	0,3242	0,3131
1837	HELD_ALL_LIP	0,0466	0,046	0,0452	0,3884	0,3987	0,3879
1837	HELD_ALL_ADR	0,052	0,0488	0,0514	0,0709	0,075	0,0708
1854	HELD_FEM_LIP	0,0512	0,0527	0,05	0,0661	0,07	0,0658
1862	HELD_FEM_LIP	0,0562	0,058	0,0534	0,0231	0,0264	0,0229
2085	HELD_FEM_CC	0,0149	0,0109	0,0118	0,0081	0,0096	0,0081
2085	HELD_ALL_CC	0,0388	0,038	0,0345	0,0185	0,02	0,0183
2093	HELD_MAL_CC	0,047	0,0249	0,037	0,0015	0,002	0,0013
2093	HELD_ALL_CC	0,1596	0,1532	0,1414	0,04.	0,0501	0,0383
2109	HELD_MAL_HDL	0,0044	0,0028	0,0023	0,0341	0,0543	0,0299
2109	HELD_ALL_HDL	0,0187	0,0127	0,0131	0,059	0,065	0,0546
2109	HELD_ALL_LIP2	0,0438	0,0439	0,0434	0,015	0,0152	0,0148
2109	HELD_FEM_LIP	0,0612	0,0563	0,059	0,0214	0,0277	0,0209
2124	HELD_MAL_LIP	0,1532	0,2284	0,153	0,0434	0,0557	0,0433
.2140	HELD_FEM_UEFF	0,0437	0,0427	0,0203 .	0,009	0,0116	0,0069
2140	HELD_FEM_EFF	0,0174	0,0167	0,0136	0,0082	0,009	0,008
2140	HELD_MAL_ADR	0,0596	0,0738	0,0227	0,0301	0,0429	0,0285
2140	HELD_FEM_VEFF	0,0915	0,0872	0,0888	0,0284	0,0379	0,0277
2141	HELD_MAL_ADR3ULN	0,0844	0,0968	0,0461	0,0218	0,0238	0,0116
2141	HELD_FEM_UEFF	0,0776	0,0859	0,0221	0,1372	0,1469	0,1323
2141	HELD_MAL_ADR	0,0548	0,0515	0,0254	0,0347	0,0399	0,0344
2186	HELD_MAL_ADR5ULN	0,0287	0,0843	0,1009	0,0498	0,0718	0,0798
2187	HELD_FEM_ADR3ULN	0,0517	0,0567	0,0507	0,0495	0,0613	0,0529
2192	HELD_FEM_ADR	0,0008	0,0011	0,0003	0,0011	0,0014	0,0004
2192	HELD_FEM_ADR3ULN	0,0114	0,0187	0,0015	0,0146	0,0232	0,0019
2192	HELD_ALL_ADR	0,0234	0,0113	0,0173	0,0053	0,0068	0,0044
2192	HELD_FEM_ADR5ULN	0,0613	0,1149	0,0155	0,073	0,1305	0,0181
2192	HELD_ALL_ADR3ULN	0,1807	0,1865	0,1212	0,0607	0,0756	0,039
2203	HELD_FEM_LIP	0,0132	0,011	0,0126	0,0101	0,0118	0,0098
2203	HELD_ALL_LIP	0,0296	0,0294	0,029	0,042	0,0442	0,0422
2217	HELD_MAL_CC	0,0089	0,0048	0,0053	0,0074	0,0101	0,0071
2217	CVD_FEM	0,1624	0,1741	0,1076	0,0384	0,0539	0,0314

	BAYSNI	EOMPARISON .	GTYPI	GIVPE	GTYPE	ALLEIE	ALCELE	
Decision Decision	建黎		CPVAL	XPVAL	LRPVAL	CPYAL		LRPVAL
2281 HELD_MAL_CC 0,0529 0,0593 0,0174 0,0834 0,1238 0,0807 2284 HELD_MAL_LIP 0,0754 0,0848 0,0464 0,0227 0,0292 0,0137 2290 HELD_MAL_CC 0,0301 0,0636 0,0267 0,0022 0,0031 0,0017 2327 HELD_MAL_ADRSULN 0,047 0,0358 0,0381 0,3085 0,4458 0,3068 2327 HELD_MAL_ADRSULN 0,0396 0,0397 0,0429 0,0919 0,116 0,0897 2327 HELD_FEM_EFF 0,0462 0,0457 0,0458 0,0998 0,1039 0,0998 2333 CVD_MAL 0,0703 0,0407 0,0139 0,0223 0,0233 0,0031 2353 CVD_ALL 0,1352 0,1146 0,0973 0,0468 0,0506 0,0347 2353 HELD_FEM_CC 0,0743 0,0491 0,0628 0,1836 0,3092 0,1885 2371 HELD_FEM_CC 0,0743 0,041 <				74. 143. 34.	0.00	L La Part Hand	0,0102	建设工程
2284 HELD_MAL_LIP 0,0754 0,0848 0,0464 0,0227 0,0292 0,0137 2290 HELD_MAL_CC 0,0301 0,0636 0,0267 0,0022 0,0031 0,0017 2327 HELD_MAL_ADR 0,0279 0,0298 0,0262 0,0923 0,1092 0,092 2327 HELD_MAL_ADRSULN 0,047 0,0358 0,0381 0,3085 0,4458 0,3068 2327 HELD_FEM_EFF 0,0462 0,0457 0,0458 0,0998 0,1039 0,0998 2353 CVD_MAL 0,0703 0,0407 0,0139 0,0223 0,0233 0,0031 2353 CVD_ALL 0,1352 0,1146 0,0973 0,0468 0,0506 0,0347 2353 CVD_ALL 0,1352 0,1146 0,0973 0,0468 0,0506 0,0347 2353 HELD_FEM_CC 0,0743 0,0491 0,0628 0,1836 0,3092 0,1885 2371 HELD_ALL_LIP2 0,03 0,038 0,032	2281	HELD_MAL_CC	0,0529	0,0593	0,0174	0,0834		
HELD_MAL_CC	2284 .	HELD_MAL_LIP	0,0754	0,0848	0,0464	0,0227		
2327 HELD_MAL_ADR 0,0279 0,0288 0,0262 0,0923 0,1092 0,092 2327 HELD_MAL_ADRSULN 0,047 0,0358 0,0381 0,3085 0,4458 0,3068 2327 HELD_MAL_ADR3ULN 0,0396 0,0397 0,0429 0,0919 0,116 0,0897 2327 HELD_FEM_EFF 0,0462 0,0457 0,0458 0,0998 0,1039 0,0233 0,0031 2353 CVD_MAL 0,0703 0,0407 0,0139 0,0223 0,0233 0,0031 2353 CVD_ALL 0,1352 0,1146 0,0973 0,0468 0,0506 0,0347 2353 CVD_ALL 0,1352 0,1146 0,0973 0,0468 0,0506 0,0347 2353 HELD_FEM_CC 0,0743 0,0491 0,0628 0,1836 0,3092 0,1885 2371 HELD_ALL_LIP2 0,03 0,038 0,0327 0,0411 0,0432 2376 HELD_FEM_UHFF 0,0263 0,0256	2290	HELD_MAL_CC	0,0301	0,0636	0,0267	0,0022	0,0031	
HELD_MAL_ADRSULN 0,047 0,0358 0,0381 0,3085 0,4458 0,3068 2327 HELD_MAL_ADRSULN 0,0396 0,0397 0,0429 0,0919 0,116 0,0897 2327 HELD_FEM_EFF 0,0462 0,0457 0,0458 0,0998 0,1039 0,0998 2353 CVD_MAL 0,0703 0,0407 0,0139 0,0223 0,0233 0,0031 2353 HELD_ALL_CC 0,0255 0,0122 0,0224 0,0659 0,0929 0,0654 2353 CVD_ALL 0,1352 0,1146 0,0973 0,0468 0,0506 0,0347 2353 HELD_FEM_CC 0,0743 0,0491 0,0628 0,1836 0,3092 0,1885 0,3092 0,1885 0,3092 0,1885 0,3092 0,1885 0,3092 0,1885 0,3092 0,1885 0,3092 0,1885 0,3092 0,1885 0,3092 0,1885 0,3092 0,1885 0,3092 0,1885 0,3092 0,1885 0,3092 0,1885 0,3092 0,1885 0,3092 0,1885 0,3092 0,1885 0,3092 0,0327 0,0411 0,0329 0,0034 0,0444 0,0432 0,0444 0,0432 0,0444 0,0432 0,0444 0,0432 0,0444 0,0432 0,0444 0,0432 0,0444 0,0432 0,0444 0,0432 0,0444 0,0445 0,04	2327	HELD_MAL_ADR	0,0279	0,0298	0,0262	0,0923		
2327 HELD_MAL_ADR3ULN 0,0396 0,0397 0,0429 0,0919 0,116 0,0887 2327 HELD_FEM_EFF 0,0462 0,0457 0,0458 0,0998 0,1039 0,0998 2353 CVD_MAL 0,0703 0,0407 0,0139 0,0223 0,0233 0,0031 2353 HELD_ALL_CC 0,0255 0,0122 0,0224 0,0659 0,0929 0,0654 2353 CVD_ALL 0,1352 0,1146 0,0973 0,0468 0,0506 0,0347 2353 HELD_FEM_CC 0,0743 0,0491 0,0628 0,1836 0,3092 0,1885 2371 HELD_ALL_LIP2 0,018 0,018 0,0181 0,043 0,0444 0,0432 2401 HELD_FEM_UEFF 0,0263 0,0256 0,0266 0,1128 0,1233 0,1146 2463 HELD_FEM_LCC 0,0257 0,0328 0,0074 0,0307 0,0376 0,0088 2463 HELD_FEM_LIP2 0,0915 0,0988 <	2327	HELD_MAL_ADR5ULN	0,047	0,0358	0,0381	0,3085		
HELD_FEM_EFF 0,0462 0,0457 0,0458 0,0998 0,1039 0,0998	2327	HELD_MAL_ADR3ULN	0,0396	0,0397	0,0429	0,0919		
2353 CVD_MAL 0,0703 0,0407 0,0139 0,0223 0,0233 0,0031 2353 HELD_ALL_CC 0,0255 0,0122 0,0224 0,0659 0,0929 0,0654 2353 CVD_ALL 0,1352 0,1146 0,0973 0,0468 0,0506 0,0347 2353 HELD_FEM_CC 0,0743 0,0491 0,0628 0,1836 0,3092 0,1885 2371 HELD_ALL_LIP2 0,018 0,0181 0,043 0,0444 0,0432 2376 HELD_ALL_LIP2 0,03 0,038 0,0302 0,0327 0,0411 0,0329 2401 HELD_FEM_URF 0,0263 0,0256 0,0266 0,1128 0,1233 0,1146 2463 HELD_ALL_CC 0,0122 0,0147 0,0028 0,0144 0,0168 0,0033 2463 HELD_FEM_LIP2 0,0915 0,0988 0,0431 0,7177 0,7419 0,718 2755 HELD_FEM_ADR 0,0203 0,0192 0,0178 0,02	2327	HELD_FEM_EFF	0,0462	0,0457	0,0458	0,0998	0,1039	
2353	2353	CVD_MAL	0,0703	0,0407	0,0139	0,0223	0,0233	
2353 CVD_ALL 0,1352 0,1146 0,0973 0,0468 0,0506 0,0347 2353 HELD_FEM_CC 0,0743 0,0491 0,0628 0,1836 0,3092 0,1885 2371 HELD_ALL_LIP2 0,018 0,0181 0,043 0,0444 0,0432 2376 HELD_ALL_LIP2 0,03 0,038 0,0302 0,0327 0,0411 0,0329 2401 HELD_FEM_UBFF 0,0263 0,0256 0,0266 0,1128 0,1233 0,1146 2463 HELD_FEM_CC 0,0122 0,0147 0,0028 0,0144 0,0168 0,0033 2463 HELD_FEM_LIP2 0,0915 0,0988 0,0431 0,7177 0,7419 0,718 2755 HELD_FEM_ADR 0,0223 0,0192 0,0178 0,0222 0,024 0,022 2755 HELD_FEM_EFF 0,0455 0,035 0,03 0,0499 0,0513 0,0496 2755 HELD_FEM_EFF 0,0455 0,0449 0,0446 0,	2353	HELD_ALL_CC	0,0255	0,0122	0,0224	0,0659	0,0929	
Held_Fem_CC 0,0743 0,0491 0,0628 0,1836 0,3092 0,1885	2353	CVD_ALL	0,1352	0,1146	0,0973	0,0468	0,0506	
2371 HELD_ALL_LIP2 0,018 0,018 0,0181 0,043 0,0444 0,0432 2376 HELD_ALL_LIP2 0,03 0,038 0,0302 0,0327 0,0411 0,0329 2401 HELD_FEM_UEFF 0,0263 0,0256 0,0266 0,1128 0,1233 0,1146 2463 HELD_ALL_CC 0,0122 0,0147 0,0028 0,0144 0,0168 0,0033 2463 HELD_FEM_CC 0,0257 0,0328 0,0074 0,0307 0,0376 0,0088 2463 HELD_FEM_LIP2 0,0915 0,0988 0,0431 0,7177 0,7419 0,718 2755 HELD_FEM_ADR 0,0203 0,0192 0,0178 0,0222 0,024 0,022 2755 HELD_FEM_EFF 0,0455 0,0449 0,0446 0,4065 0,4262 0,4065 2925 HELD_FEM_VEFF 0,0168 0,0169 0,0162 0,0055 0,0058 0,0055 2925 HELD_FEM_VEFF 0,0184 0,0176	2353	HELD_FEM_CC	0,0743	0,0491	0,0628	0,1836	0,3092	
2401 HELD_FEM_UEFF 0,0263 0,0256 0,0266 0,1128 0,1233 0,1146 2463 HELD_ALL_CC 0,0122 0,0147 0,0028 0,0144 0,0168 0,0033 2463 HELD_FEM_CC 0,0257 0,0328 0,0074 0,0307 0,0376 0,0088 2463 HELD_FEM_LIP2 0,0915 0,0988 0,0431 0,7177 0,7419 0,718 2755 HELD_FEM_ADR 0,0203 0,0192 0,0178 0,0222 0,024 0,022 2755 HELD_ALL_ADR 0,0325 0,035 0,03 0,0499 0,0513 0,0496 2755 HELD_FEM_EFF 0,0455 0,0449 0,0446 0,4065 0,4262 0,4065 2925 HELD_FEM_UEFF 0,0168 0,0169 0,0162 0,0055 0,0058 0,0055 2925 HELD_FEM_ADR3ULN 0,031 0,0498 0,0233 0,0515 0,0764 0,0376 3152 HELD_FEM_VEFF 0,0204 0,0206	2371	HELD_ALL_LIP2	0,018	0,018	0,0181	0,043	0,0444	
2463 HELD_ALL_CC 0,0122 0,0147 0,0028 0,0144 0,0168 0,0033 2463 HELD_FEM_CC 0,0257 0,0328 0,0074 0,0307 0,0376 0,0088 2463 HELD_FEM_LIP2 0,0915 0,0988 0,0431 0,7177 0,7419 0,718 2755 HELD_FEM_ADR 0,0203 0,0192 0,0178 0,0222 0,024 0,022 2755 HELD_ALL_ADR 0,0325 0,035 0,03 0,0499 0,0513 0,0496 2755 HELD_FEM_EFF 0,0455 0,0449 0,0446 0,4065 0,4262 0,4065 2925 HELD_FEM_VEFF 0,0168 0,0169 0,0162 0,0055 0,0058 0,0055 2925 HELD_FEM_UEFF 0,0184 0,0176 0,0181 0,009 0,0119 0,0088 3043 HELD_FEM_ADR3ULN 0,031 0,0498 0,0233 0,0515 0,0764 0,0376 3152 HELD_FEM_VEFF 0,0379 0,0331	2376	HELD_ALL_LIP2	0,03	0,038	0,0302	0,0327	0,0411	0,0329
2463 HELD_FEM_CC 0,0257 0,0328 0,0074 0,0307 0,0376 0,0088 2463 HELD_FEM_LIP2 0,0915 0,0988 0,0431 0,7177 0,7419 0,718 2755 HELD_FEM_ADR 0,0203 0,0192 0,0178 0,0222 0,024 0,022 2755 HELD_ALL_ADR 0,0325 0,035 0,03 0,0499 0,0513 0,0496 2755 HELD_FEM_EFF 0,0455 0,0449 0,0446 0,4065 0,4262 0,4065 2925 HELD_FEM_VEFF 0,0168 0,0169 0,0162 0,0055 0,0058 0,0055 2925 HELD_FEM_UEFF 0,0184 0,0176 0,0181 0,009 0,0119 0,0088 3043 HELD_FEM_ADR3ULN 0,031 0,0498 0,0233 0,0515 0,0764 0,0376 3152 HELD_FEM_VEFF 0,0204 0,0206 0,0196 0,3254 0,333 0,3253 3214 HELD_MAL_ADRSULN 0,0093 0,1304 <td>2401</td> <td>HELD_FEM_UEFF</td> <td>0,0263</td> <td>0,0256</td> <td>0,0266</td> <td>0,1128</td> <td>0,1233</td> <td>0,1146</td>	2401	HELD_FEM_UEFF	0,0263	0,0256	0,0266	0,1128	0,1233	0,1146
2463 HELD_FEM_LIP2 .0,0915 0,0988 0,0431 0,7177 0,7419 0,718 2755 HELD_FEM_ADR 0,0203 0,0192 0,0178 0,0222 0,024 0,022 2755 HELD_ALL_ADR 0,0325 0,035 0,03 0,0499 0,0513 0,0496 2755 HELD_FEM_EFF 0,0455 0,0449 0,0446 0,4065 0,4262 0,4065 2925 HELD_FEM_VEFF 0,0168 0,0169 0,0162 0,0055 0,0058 0,0055 2925 HELD_FEM_UEFF 0,0184 0,0176 0,0181 0,009 0,0119 0,0088 3043 HELD_FEM_ADR3ULN 0,031 0,0498 0,0233 0,0515 0,0764 0,0376 3152 HELD_FEM_VEFF 0,0204 0,0206 0,0196 0,3254 0,333 0,3253 3214 HELD_FEM_VEFF 0,0379 0,0331 0,0261 0,4369 0,4475 0,437 3237 HELD_FEM_CC 0,0174 0,0276	2463	HELD_ALL_CC	0,0122	0,0147	0,0028	0,0144	0,0168	0,0033
2755 HELD_FEM_ADR 0,0203 0,0192 0,0178 0,0222 0,024 0,022 2755 HELD_ALL_ADR 0,0325 0,035 0,03 0,0499 0,0513 0,0496 2755 HELD_FEM_EFF 0,0455 0,0449 0,0446 0,4065 0,4262 0,4065 2925 HELD_FEM_VEFF 0,0168 0,0169 0,0162 0,0055 0,0058 0,0055 2925 HELD_FEM_UEFF 0,0184 0,0176 0,0181 0,009 0,0119 0,0088 3043 HELD_FEM_ADR3ULN 0,031 0,0498 0,0233 0,0515 0,0764 0,0376 3152 HELD_FEM_VEFF 0,0204 0,0206 0,0196 0,3254 0,333 0,3253 3214 HELD_FEM_VEFF 0,0379 0,0331 0,0261 0,4369 0,4475 0,437 3215 HELD_MAL_ADRSULN 0,0093 0,1304 0,041 0,0096 0,1304 0,0423 3237 HELD_FEM_CC 0,0174 0,0276	2463	HELD_FEM_CC	0,0257	0,0328	0,0074	0,0307	0,0376	0,0088
2755 HELD_ALL_ADR 0,0325 0,035 0,03 0,0499 0,0513 0,0496 2755 HELD_FEM_EFF 0,0455 0,0449 0,0446 0,4065 0,4262 0,4065 2925 HELD_FEM_VEFF 0,0168 0,0169 0,0162 0,0055 0,0058 0,0055 2925 HELD_FEM_UEFF 0,0184 0,0176 0,0181 0,009 0,0119 0,0088 3043 HELD_FEM_ADR3ULN 0,031 0,0498 0,0233 0,0515 0,0764 0,0376 3152 HELD_FEM_VEFF 0,0204 0,0206 0,0196 0,3254 0,333 0,3253 3214 HELD_FEM_VEFF 0,0379 0,0331 0,0261 0,4369 0,4475 0,437 3215 HELD_MAL_ADRSULN 0,0093 0,1304 0,041 0,0096 0,1304 0,0423 3237 HELD_FEM_CC 0,0174 0,0276 0,0167 0,0218 0,0323 0,0211 3241 HELD_MAL_ADRSULN 0,2155 0,199			.0,0915	0,0988	0,0431	0,7177	0,7419	0,718
2755 HELD_FEM_EFF 0,0455 0,0449 0,0446 0,4065 0,4262 0,4065 2925 HELD_FEM_VEFF 0,0168 0,0169 0,0162 0,0055 0,0058 0,0055 2925 HELD_FEM_UEFF 0,0184 0,0176 0,0181 0,009 0,0119 0,0088 3043 HELD_FEM_ADR3ULN 0,031 0,0498 0,0233 0,0515 0,0764 0,0376 3152 HELD_FEM_VEFF 0,0204 0,0206 0,0196 0,3254 0,333 0,3253 3214 HELD_FEM_VEFF 0,0379 0,0331 0,0261 0,4369 0,4475 0,437 3215 HELD_MAL_ADRSULN 0,0093 0,1304 0,041 0,0096 0,1304 0,0423 3237 HELD_FEM_CC 0,0174 0,0276 0,0167 0,0218 0,0323 0,0211 3241 HELD_MAL_ADR 0,111 0,1115 0,1048 0,0334 0,0418 0,033 3826 HELD_ALL_ADRSULN 0,254 0,295		HELD_FEM_ADR	0,0203	0,0192	0,0178	0,0222	0,024	0,022
2925 HELD_FEM_VEFF 0,0168 0,0169 0,0162 0,0055 0,0058 0,0055 2925 HELD_FEM_UEFF 0,0184 0,0176 0,0181 0,009 0,0119 0,0088 3043 HELD_FEM_ADR3ULN 0,031 0,0498 0,0233 0,0515 0,0764 0,0376 3152 HELD_FEM_VEFF 0,0204 0,0206 0,0196 0,3254 0,333 0,3253 3214 HELD_FEM_VEFF 0,0379 0,0331 0,0261 0,4369 0,4475 0,437 3215 HELD_MAL_ADRSULN 0,0093 0,1304 0,041 0,0096 0,1304 0,0423 3237 HELD_FEM_CC 0,0174 0,0276 0,0167 0,0218 0,0323 0,0211 3241 HELD_MAL_ADR 0,111 0,1115 0,1048 0,0334 0,0418 0,033 3826 HELD_MAL_ADRSULN 0,2155 0,1993 0,0862 0,0716 0,1186 0,0187 3826 HELD_MAL_ADRSULN 0,2538		HELD_ALL_ADR	0,0325	0,035	0,03	0,0499	0,0513	0,0496
2925 HELD_FEM_UEFF 0,0184 0,0176 0,0181 0,009 0,0119 0,0088 3043 HELD_FEM_ADR3ULN 0,031 0,0498 0,0233 0,0515 0,0764 0,0376 3152 HELD_FEM_VEFF 0,0204 0,0206 0,0196 0,3254 0,333 0,3253 3214 HELD_FEM_VEFF 0,0379 0,0331 0,0261 0,4369 0,4475 0,437 3215 HELD_MAL_ADR5ULN 0,0093 0,1304 0,041 0,0096 0,1304 0,0423 3237 HELD_FEM_CC 0,0174 0,0276 0,0167 0,0218 0,0323 0,0211 3241 HELD_MAL_ADR 0,111 0,1115 0,1048 0,0334 0,0418 0,033 3826 HELD_MAL_ADRSULN 0,254 0,2956 0,1522 0,0707 0,0873 0,038 3826 HELD_MAL_ADRSULN 0,2538 0,3756 0,1536 0,00707 0,0873 0,038		HELD_FEM_EFF	0,0455	0,0449	0,0446	0,4065	0,4262	0,4065
3043 HELD_FEM_ADR3ULN 0,031 0,0498 0,0233 0,0515 0,0764 0,0376 3152 HELD_FEM_VEFF 0,0204 0,0206 0,0196 0,3254 0,333 0,3253 3214 HELD_FEM_VEFF 0,0379 0,0331 0,0261 0,4369 0,4475 0,437 3215 HELD_MAL_ADR5ULN 0,0093 0,1304 0,041 0,0096 0,1304 0,0423 3237 HELD_FEM_CC 0,0174 0,0276 0,0167 0,0218 0,0323 0,0211 3241 HELD_MAL_ADR 0,111 0,1115 0,1048 0,0334 0,0418 0,033 3826 HELD_MAL_ADR5ULN 0,2155 0,1993 0,0862 0,0716 0,1186 0,0187 3826 HELD_ALL_ADR5ULN 0,254 0,2956 0,1522 0,0707 0,0873 0,038			0,0168	0,0169	0,0162	0,0055	0,0058	0,0055
3152 HELD_FEM_VEFF 0,0204 0,0206 0,0196 0,3254 0,333 0,3253 3214 HELD_FEM_VEFF 0,0379 0,0331 0,0261 0,4369 0,4475 0,437 3215 HELD_MAL_ADR5ULN 0,0093 0,1304 0,041 0,0096 0,1304 0,0423 3237 HELD_FEM_CC 0,0174 0,0276 0,0167 0,0218 0,0323 0,0211 3241 HELD_MAL_ADR 0,111 0,1115 0,1048 0,0334 0,0418 0,033 3826 HELD_MAL_ADR5ULN 0,2155 0,1993 0,0862 0,0716 0,1186 0,0187 3826 HELD_ALL_ADR5ULN 0,254 0,2956 0,1522 0,0707 0,0873 0,038		HELD_FEM_UEFF	0,0184	0,0176	0,0181	0,009	0,0119	0,0088
3214 HELD_FEM_VEFF 0,0379 0,0331 0,0261 0,4369 0,4475 0,437 3215 HELD_MAL_ADR5ULN 0,0093 0,1304 0,041 0,0096 0,1304 0,0423 3237 HELD_FEM_CC 0,0174 0,0276 0,0167 0,0218 0,0323 0,0211 3241 HELD_MAL_ADR 0,111 0,1115 0,1048 0,0334 0,0418 0,033 3826 HELD_MAL_ADR5ULN 0,2155 0,1993 0,0862 0,0716 0,1186 0,0187 3826 HELD_ALL_ADR5ULN 0,254 0,2956 0,1522 0,0707 0,0873 0,038		HELD_FEM_ADR3ULN	0,031	0,0498	0,0233	0,0515	0,0764	0,0376
3215 HELD_MAL_ADRSULN 0,0093 0,1304 0,041 0,0096 0,1304 0,0423 3237 HELD_FEM_CC 0,0174 0,0276 0,0167 0,0218 0,0323 0,0211 3241 HELD_MAL_ADR 0,111 0,1115 0,1048 0,0334 0,0418 0,033 3826 HELD_MAL_ADRSULN 0,2155 0,1993 0,0862 0,0716 0,1186 0,0187 3826 HELD_ALL_ADRSULN 0,254 0,2956 0,1522 0,0707 0,0873 0,038			0,0204	0,0206	0,0196 ·	0,3254	0,333	0,3253
3237 HELD_FEM_CC 0,0174 0,0276 0,0167 0,0218 0,0323 0,0211 3241 HELD_MAL_ADR 0,111 0,1115 0,1048 0,0334 0,0418 0,033 3826 HELD_MAL_ADRSULN 0,2155 0,1993 0,0862 0,0716 0,1186 0,0187 3826 HELD_ALL_ADRSULN 0,254 0,2956 0,1522 0,0707 0,0873 0,038 3826 HELD_MAL_ADRSULN 0,254 0,2956 0,1522 0,0707 0,0873 0,038		HELD_FEM_VEFF	0,0379	0,0331	0,0261	0,4369	0,4475	0,437
3241 HELD_MAL_ADR 0,111 0,1115 0,1048 0,0334 0,0418 0,033 3826 HELD_MAL_ADR5ULN 0,2155 0,1993 0,0862 0,0716 0,1186 0,0187 3826 HELD_ALL_ADR5ULN 0,254 0,2956 0,1522 0,0707 0,0873 0,038 3826 HELD_MAL_ADR3ULN 0,2528 0,2755 0,1606 0,0000 0,0873 0,038			0,0093	0,1304	0,041	0,0096	0,1304	0,0423
3241 HELD_MAL_ADR 0,111 0,1115 0,1048 0,0334 0,0418 0,033 3826 HELD_MAL_ADR5ULN 0,2155 0,1993 0,0862 0,0716 0,1186 0,0187 3826 HELD_ALL_ADR5ULN 0,254 0,2956 0,1522 0,0707 0,0873 0,038 3826 HELD_MAL_ADR3ULN 0.2538 0.2755 0.1636 0.0007 0.0873 0,038		HELD_FEM_CC	0,0174	0,0276	0,0167	0,0218	0,0323	0,0211
3826 HELD_ALL_ADR5ULN			0,111	0,1115	0,1048	0,0334	0,0418	0,033
3826 HELD MALADRAUN 0.2528 0.2555 0.1525 0.0077 0.0873 0.038			0,2155	0,1993	0,0862	0,0716	0,1186	0,0187
3826 HELD_MAL_ADR3ULN 0,2528 0,2755 0,1635 0,0732 0,1143 0,044			0,254	0,2956	0,1522	0,0707	0,0873	0,038
	3826	HELD_MAL_ADR3ULN	0,2528	0,2755	0,1635	0,0732	0,1143	0,044

BAYSNE	-LEOMPARISON -	76.73 SI	The Cart of	GTYPE.	ALLERE	ALLELE	ALLICHE
		ĊŖŸĀĿ	XPVAL	TRPVAL	COVAL	XPVM	PREAT
3842	CVD_ALL	0,0096	0,0142	0,0014	0,0108	0,0157	0,0016
3842	CVD_MAL	0,0682	0,0966	0,0207	0,0735	0,1027	0,0222
3842	CVD_FEM	0,0717	0,1136	0,0359	0,0751	0,1165	0,0376
3843	HELD_MAL_CC2	0,0207	0,0236	0,0084	0,0758	0,1046	0,0759
3843	'HELD_FEM_HDL	0,0447	0,024	0,0146	0,1239	0,1687	0,1233
3869	HELD_FEM_UEFF	0,0491	0,0538	0,0488	0,0211	0,0244	0,0202
3942	HELD_FEM_UEFF	0,0206	0,0152	0,0122	0,0028	0,0041	0,0029
4018	HELD_MAL_LIP	0,1128	0,1214	0,0532	0,037	0,0451	0,0313
4206	HELD_ALL_ADR3ULN	0,1055	0,1128	0,1103	0,041	0,0532	0,0418
4206	HELD_FEM_ADR	0,1218	0,1204	0,1193	0,0436	0,0574	0,0434
4206	HELD_ALL_ADR5ULN	0,1204	0,1214	0,1254	0,0472	0,0639	0,0488
4527	CVD_ALL	0,0044	0,0031	0,0012	0,2436	0,2844	0,2451
4527	HELD_FEM_LIP2	0,0441	0,0429	0,0424	0,0147	0,0157	0,0145
4527	HELD_MAL_CC	0,0814	0,0496	0,0661	0,0208	0,0296	0,0197
4527	HELD_MAL_CC2	0,0599	0,0604	0,0583	0,0256	0,0378	0,0267
4527	HELD_ALL_ADR3ULN	0,0688	0,0608	0,0728	0,0316	0,0402	0,0354
4527	HELD_ALL_CC2	0,1329	0,1396	0,1355	0,0449	0,048	0,0461
4527	HELD_ALL_ADR5ULN	0,0796	0,0668	0,1142	0,0478	0,0592	0,0569
4544	HELD_MAL_ADR3ULN	0,0116	0,0154	0,0146	0,0043	0,0062	0,0063
4544	HELD_MAL_ADR	0,0731	0,0643	0,0601	0,0283	0,0348	0,0274
4544	HELD_ALL_ADR	0,086	0,0869	0,0832	0,0279	0,0308	0,0276
4544	HELD_ALL_ADR3ULN	0,1284	0,1257	0,1312	0,0497	0,054	0,0537
4545	HELD_MAL_ADR3ULN	0,0116	0,0154	0,0146	0,0043	0,0062	0,0063
4545	HELD_MAL_ADR	0,0629	0,0569	0,0516	0,0234	0,0247	0,0226
4545	HELD_ALL_ADR	0,0947	0,0982	0,0917	0,0318	0,0385	0,0314
4668	HELD_ALL_ADR5ULN	0,0773	0,0782	0,0348	0,1143	0,1279	0,1111
4669	HELD_FEM_EFF	0,1061	0,1031	0,1053	0,0415	0,0458	0,0412
4718	HELD_MAL_LIP	0,0234	0,0261	0,006	0,2267	0,2838	0,2221
4818	HELD_MAL_LIP	0,0117	0,0073	0,0072	0,0904	0,1138	0,0946
4827	HELD_MAL_ADR5ULN	0,0267	7 0,0922	0,0873	0,6447	0,708	0,6539
4838	HELD_ALL_CC2	0,1354	0,142	0,1366	0,047	0,0495	0,0469
4856	CVD_MAL	0,012	3 0,033	0,0089	0,0129	0,0349	0,0094

BAYSNE	- ACOMPARISON :	COVPE	(CIVE)	ectype?	METER	Was a serious	A BENEVICE
4868	HELD MAL ADR	0,0492	0,055	0,0155	0,2125	0,24	0,2117
4868	HELD_MAL_ADR5ULN	0,0236	0,1201	0,1125	0,412	0,5267	0,4261
4887	HELD MAL CC	0,0119	0,0064	0,0075	0,0066	0,0077	0,0042
4887	HELD_ALL_CC	0,0826	0,0705	0,0811	0,0378	0,0429	0,0378
4912	HELD MAL LIP	0,2542	0,3163	0,2499	0,0375	0,053	0,0378
4951	HELD_ALL ADR3ULN	0,0019	0,0018	0,0018	0,5543	0,6301	0,5547
4951	HELD_FEM_ADR3ULN	0,0019	0,0029	0,0018	0,237	0,0301	
4951	HELD_FEM_ADRSULN	0,0028	0,0029	0,0088	0,0663		0,2372
4951	HELD_ALL_ADR5ULN	0,0049	0,0054	0,0000	0,0003	0,0845	0,0657
4951	HELD_FEM_ADR					0,0675	0,0589
		0,0104	0,0096	0,0091	0,1202	0,1247	0,12
4951	HELD_ALL_ADR	0,0233	0,0229	0,022	0,1271	0,1376	0,1269
4952	HELD_ALL_ADR3ULN	0,0018	0,0017	0,0015	0,6771	0,7182	0,6774
4952	HELD_FEM_ADR3ULN	0,0019	0,0017	0,002	0,2491	0,2848	0,2496
4952	HELD_FEM_ADR5ULN	0,0029	0,0023	0,0048	0,0938	0,1245	0,094
4952	HELD_ALL_ADR5ULN	0,0062	0,0056	0,009	0,1013	0,1264	0,102
4966	HELD_MAL_LIP	0,0276	0,027	0,0099	0,0138	0,0207	0,0122
4966	HELD_MAL_ADR	0,0409	0,046	0,0375	0,0937	0,1211	0,0933
4966	HELD_FEM_CC	0,0951	0,1056	0,0936	0,0442	0,0696	0,0434
5019	CVD_FEM	0,0011	0,001	0,0007	0,0055	0,0087	0,0053
5019	HELD_ALL_CC2	0,0043	0,0045	0,0043	0,0479	0,0599	0,0477
5019	HELD_MAL_HDL	0,0666	0,0705	0,0594	0,0076	0,0117	0,0068
5019	HELD_ALL_LIP	0,0362	0,0383	0,0342	0,0109	0,0125	0,0108
5019	HELD_MAL_CC2	0,0182	0,0179	0,0186	0,0143	0,0167	0,0138
5165	HELD_FEM_ADR3ULN	0,0193	0,0172	0,0174	0,064	0,0907	0,0714
5165	HELD_MAL_ADR5ULN	0,0267	0,0922	0,0873	0,6447	0,708	0,6539
5165	HELD_FEM_ADR	0,0405	0,0271	0,0268	0,2071	0,2511	0,2059
5165	HELD_FEM_ADR5ULN	0,0414	0,0557	0,0471	0,0836	0,1012	0,101
5278	HELD_MAL_ADR5ULN	0,0556	0,0596	0,1196	0,046	0,0769	0,0577
5287	HELD_FEM_VEFF	0,0487	0,0497	0,0438	0,0093	0,0101	0,0088
5320	CVD_FEM	0,0342	0,0343	0,0283	0,0279	0,0303	0,0274
5324	HELD_FEM_VEFF	0,0912	0,0915	0,0898	0,0318	0,0391	0,0317
5373	HELD_FEM_ADR5ULN	0,0095	0,0124	0,0056	0,0061	0,0088	0,0028
	<u> </u>		1				

PCT/EP2004/000539

BAYSNP	COMPARISONA)	GTYPE.	CTAPE	Cimple	ALEELE	ANTURLE.	ALICELEA
		CPVAL	XPVAL	TREVAL	er Valz	XPVAL	ERPVAI
5373	HELD_ALL_ADR5ULN	0,0776	0,0691	0,0342	0,0287	0,0398	0,0217
5375	HELD_FEM_ADR5ULN	0,0092	0,0136	0,0056	0,0058	0,0081	0,0027
5375	HELD_ALL_ADR5ULN	0,138	0,1305	0,0564	0,0585	0,0615	0,0495
5376	HELD_MAL_ADR5ULN	0,0067	0,1212	0,0373	0,0069	0,1212	0,0386
5377	HELD_FEM_ADR	0,0201	0,019	0,019	0,2353	0,2692	0,2345
5377	HELD_FEM_ADR5ULN	0,0497	0,0546	0,0353	0,0289	0,044	0,0203
5517	HELD_MAL_ADR	0,0831	0,1183	0,0317	0,4341	0,6834	0,4294
5518	HELD_FEM_ADR5ULN	0,0341	0,1839	0,0637	0,0346	0,1839	0,0647
5564	CVD_MAL	0,0139	0,0146	0,0159	0,1077	0,1348	0,1057
5569	HELD_MAL_ADR5ULN	0,1012	0,1304	0,0676	0,0445	0,0667	0,0238
5569	HELD_ALL_ADR5ULN	0,1458	0,1504	0,0609	0,0502	0,0672	0,04
5716	HELD_ALL_ADR3ULN	0,0067	0,0064	0,0069	0,0024	0,0025	0,0023
5716	HELD_FEM_ADR3ULN	0,0071	0,0063	0,0059	0,0027	0,0037	0,0024
5716	HELD_ALL_ADR5ULN	0,0248	0,0232	0,0218	0,0092	0,0124	0,0092
5716	HELD_FEM_ADR5ULN	0,0769	0,0784	0,0685	0,0334	0,0412	0,0321
5717	HELD_ALL_ADR5ULN	0,1212	0,1272	0,097	0,0433	0,049	0,0427
5717	, CVD_FEM	0,0496	0,0575	0,0431	0,0551	0,0634	0,054
5850	HELD_MAL_CC	0,0304	0,0344	0,0113	0,1197	0,1794	0,1186
5959	CVD_MAL	0,064	0,0647	0,0552	0,0467	0,0678	0,048
6151	HELD_MAL_ADR	0,0502	0,0501	0,0488	0,3223	0,3964	0,3221
6236	HELD_ALL_ADR	0,0472	0,051	0,0424	0,0867	0,0953	0,0864
6277	HELD_FEM_ADR5ULN	0,0014	0,0053	0,0049	0,0127	0,0215	0,0185
6277	HELD_ALL_ADR5ULN	0,0041	0,0135	0,026	0,0832	0,1012	0,0964
6277	HELD_FEM_ADR	0,0251	0,0239	0,0079	0,0157	0,0186	0,0149
6277	HELD_FEM_ADR3ULN	0,0147	0,0126	0,0119	0,0167	0,02	0,0196
6313	HELD_FEM_UEFF	0,0369	0,0357	0,0376	0,1201	0,1519	0,1204
6369	HELD_FEM_LIP	0,1311	0,145	0,1269	0,0461	0,0594	0,0457
6374	HELD_ALL_ADR3ULN	0,0338	0,0325	0,0352	0,0091	0,0107	0,0099
6374	HELD_MAL_ADR3ULN	0,0498	0,0564	0,044	0,011	0,0152	0,0121
6396	HELD_MAL_CC	0,0165	0,0238	0,0048	0,0233	0,031	0,0066
6396	HELD_ALL_CC	0,0528	0,0316	0,0496	0,0334	0,0403	0,0323
6396	CVD_FEM.	0,1144	0,0874	0,0928	0,046	0,0631	0,0442

BAYSNP:	COMPARISON C	GTYPE	CTYPE	GEYRE	AMERICA	ATECCE	Ara aras
n te		1 1 1 1 1 1 1 1 1 1	A Post of the Party		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	XPVAL.	20 To 10 To
6396	CVD ALL	0,1388	0,1213	0,0933	0,0516	0,0541	0,0465
6486	HELD_ALL_CC2	0,1446	0,1479	0,1283	0,0373	0,0528	0,0345
6520	HELD_MAL_ADR5ULN	0,0003	0,0081	0,0068	0,1889	0,3068	0,2137
6520	HELD_MAL_ADR3ULN	0,0021	0,005	0,0051	0,1797	0,2122	0,1939
6520	HELD_ALL_ADR5ULN	0,022	0,0339	0,0666	0,0816	0,0892	0,093
6520	HELD_MAL_ADR	0,0743	0,0876	0,0283	0,322	0,3417	0,3212
6522	HELD_FEM_ADR3ULN	0,0618	0,0604	0,0447	0,2761	0,3091	0,284
6522	HELD_FEM_ADR	0,0523	0,0465	0,0502	0,0894	0,0983	0,0882
6524	HELD_MAL_ADR3ULN	0,0215	0,0213	0,0096	0,0128	0,0173	0,0106
6596	HELD_FEM_ADR3ULN	0	0	0	0	0,0001	0
6596	HELD_FEM_ADR5ULN	0,0001	0,0006	0,0004	0,0001	0,0011	0,0008
6596	HELD_ALL_ADR3ULN	0,0003	0,0006	0,0005	0,0005	0,001	0,001
6596	HELD_FEM_ADR	0,0008	0,0011	0,0005	0,0014	0,0018	0,0009
6596	HELD_ALL_ADR5ULN	0,0025	0,0064	0,0064	0,0036	0,0085	0,0094
6596	HELD_ALL_ADR	.0,0199	0,0229	0,0186	0,0253	0,0286	0,0236
6734	HELD_ALL_CC	0,04	0,0752	0,0208	0,0463	0,0816	0,0241
6743	HELD_ALL_ADR	0,0299	0,0298	0,0293	0,5743	0,6388	0,5742
7128	HELD_ALL_ADR3ULN	0,0099	0,0103	0,0081	0,0032	0,0042	0,0021
7128	HELD_FEM_ADR3ULN	0,0161	0,014	0,0134	0,011	0,0121	0,0085
7128	HELD_ALL_ADR5ULN	0,0787	0,0793	0,0702	0,029	0,0316	0,0217
7128	HELD_FEM_ADR	0,0447	0,0497	0,0437	0,0497	0,0519	0,0496
7128	HELD_FEM_ADR5ULN	0,0996	0,1085	0,0925	0,0561	0,0763	0,0458
7363	HELD_FEM_LIP	0,0763	0,0816	0,0701	0,0282	0,0385	0,0276
7363	HELD_ALL_LIP	0,0741	0,0762	0,0712	0,0298	0,0314	0,0299
7409	HELD_FEM_ADR5ULN	0,0051	0,0049	0,01	0,0025	0,0051	0,0054
7409	HELD_FEM_ADR3ULN	0,0303	0,0175	0,0316	0,0135	0,0165	0,0172
7409	HELD_MAL_ADR5ULN	0,1823	0,1987	0,0669	0,0691	0,128	0,017
8138	HELD_MAL_LIP	0,0177	0,0193	0,0183	0,0079	0,0088	0,0069
8138	HELD_MAL_CC	0,0107	0,011	0,0077	0,4323	0,4651	0,4318
8138	HELD_ALL_LIP	0,0401	0,039	0,0399	0,0761	0,0923	0,0757
8168	HELD_MAL_LIP	0,0229	0,0222	0,026	0,011	0,0203	0,0132
8168	HELD_FEM_LIP	0,0241	0,0204	0,0226	0,1027	0,1374	0,1017

BAYSNP		GTY PE	GTYPE	CTYPE	ALLELE	ALLEED	ALBEE
		CPVAL	XPVAL	LEPVAL	CPYALS	XPVAL	<u>L</u> RPVAL
8210	HELD_ALL_ADR3ULN	0,0096	0,0098	0,0098	0,7816	0,8049	0,7818
8210	HELD_FEM_ADR3ULN	0,0141	0,0135	0,0159	0,4056	0,4314	0,4063
8210	HELD_FEM_ADR	0,0222	0,0225	0,0198	0,2153	0,2257	0,2151
8210	HELD_ALL_ADR	0,0215	0,021	0,0203	0,2277	0,2424	0,2276
8241	HELD_FEM_LIP	0,0187	0,0132	0,0085	0,0063	0,0082	0,0058
8241	HELD_ALL_LIP	0,159	0,1538	0,1542	0,0425	0,0474	0,0407
8249	HELD_ALL_ADR3ULN	0,0387	0,0449	0,0478	0,0458	0,0517	0,0569
8249	HELD_ALL_ADR5ULN	0,0455	0,0847	0,0653	0,0527	0,0943	0,0765
8480	CVD_FEM	0,0462	0,0244	0,0232	0,0026	0,0039	0,0008
8480	CVD_MAL	0,1317	0,1542	0,0466	0,0145	0,0286	0,0026
8577	HELD_ALL_ADR3ULN	0,067	0,0657	0,0615	0,0252	0,0333	0,0264
8577	HELD_ALL_ADR	0,0786	0,0752	0,0779	0,0341	0,0374	0,0339
8577	HELD_ALL_ADR5ULN	0,1543	0,1417	0,1606	0,05	0,0577	0,0532
8578	HELD_ALL_ADR3ULN	0,0857	0,0895	0,0777	0,0407	0,0491	0,0421
8653	HELD_MAL_ADR	0,0015	0,002	0,0012	0,004	0,005	0,0032
8653	HELD_MAL_ADR3ULN	0,0104	0,0118	0,0049	0,0239	0,0259	0,0099
·8653	HELD_MAL_ADR5ULN	0,0243	0,0358	0,0061	0,0499	0,0688	0,0107
8653	HELD_ALL_ADR3ULN	0,0509	0,0714	0,04	0,0799	0,1109	0,0679
8816	HELD_FEM_LIP2	0,0115	0,0116	0,0106	0,0057	0,0067	0,0056
8816	HELD_FEM_HDL	0,0254	0,0258	0,0184	0,0126	0,0148	0,0119
8816	HELD_ALL_CC2	0,0198	0,0205	0,0188	0,0352	0,0373	0,0354
8816	CVD_ALL .	0,0862	0,084	0,0801	0,0253	0,0334	0,0231
8816	HELD_FEM_CC2	0,0732	0,0788	0,0699	0,0263	0,0349	0,0263
8816	HELD_MAL_HDL	0,0827	0,0805	0,0459	0,9552	1	0,9552
8931	HELD_FEM_ADR3ULN	0,0638	0,0558	0,0365	0,1009	0,1129	0,0851
8943	HELD_MAL_ADR3ULN	0,115	0,1264	0,0702	0,0366	0,0409	0,0217
9243	HELD_FEM_VEFF	0,0407	0,0439	0,0252	0,155	0,1691	0,1544
9243	HELD_MAL_ADR5ULN	0,1035	0,0777	0,0285	0,2159	0,2497	0,1855
9243	HELD_FEM_UEFF	0,1004	0,12	0,0335	0,1733	0,2118	0,1696
9523	HELD_MAL_ADR5ULN	0,0425	0,0646	0,0613	0,0575	0,0785	0,0889
9940	HELD_MAL_CC	0,0213	0,0425	0,0073	0,0294	0,0542	0,0099
9940	HELD_ALL_CC	0,0341	0,0266	0,0312	0,0231	0,0354	0,0225

			1	11 15 NO. 15 P. B. C. 13 T.	1. T. W. S. T.	TO THE THE	ALLELE
	THE DALL ADDRESS OF	CPVAL	XPVAL	LRPVAE	CPVAL	XPVAL	inpvai
10091	HELD_ALL_ADR3ULN	0,0852	0,0819	0,1028	0,0428	0,0524	0,0487
10541	HELD_FEM_UEFF	0,0349	0,0191	0,0267	0,0305	0,0477	0,0256
10541	HELD_FEM_VEFF	0,066	0,0484	0,0643	0,0206	0,0217	0,02
10600	CVD_MAL	0,0475	0,0359	0,0348	0,0046	0,0121	0,0029
10600	HELD_ALL_HDL	0,0207	0,0298	0,0058	0,0231	0,0325	0,0064
10600	HELD_MAL_HDL	0,056	0,1137	0,0231	0,0625	0,1228	0,0256
10745	HELD_MAL_LIP	0,0926	0,0862	0,085	0,056	0,0701	0,0491
10748	HELD_MAL_LIP	0,1405	0,1855	0,1371	0,05	0,0676	0,0547
10749	HELD_FEM_LIP	0,0593	0,0591	0,055	0,0232	0,026	0,023
10785	CVD_MAL	0,1111	0,1415	0,1247	0,0383	0,0491	0,0448
10811	HELD_FEM_LIP2	0,0827	0,0859	0,0821	0,0442	0,0465	0,0435
10811	CVD_ALL	0,1149	0,1091	0,1111	0,0524	0,0646	0,0498
10830	HELD_ALL_LIP2	0,0065	0,0065	0,0062	0,0036	0,0039	0,0036
10830	HELD_ALL_LIP	0,0187	0,0191	0,018	0,0037	0,0048	0,0037
10830	HELD_MAL_LIP2	0,0389	0,0395	0,0383	0,011	0,0112	0,0109
10830	CVD_FEM	0,0268	0,0239	0,0238	0,0125	0,0141	0,0121
10830	HELD_MAL_LIP	0,0742	0,0873	0,0613	0,0224	0,0279	0,0219
10830	HELD_FEM_LIP	0,1364	0,1403	0,134	0,0428	0,0556	0,0426
10949	HELD_FEM_VEFF	0,0543	0,0577	0,0536	0,0352	0,0374	0,0351
10949	HELD_FEM_EFF	0,0748	0,0744	0,0743	0,0356	0,04	0,0356
10962	CVD_FEM	0,0113	0,0275	0,0091	0,0218	0,0457	0,0177
10962	HELD_ALL_ADR3ULN	0,1473	0,1615	0,043	0,2642	0,3199	0,258
10966	HELD_ALL_ADR3ULN	0,1289	0,1277	0,0351	0,1511	0,1736	0,1447
10966	HELD_ALL_ADR5ULN	0,1509	0,1612	0,0683	0,0587	0,0794	0,0483
11000	HELD_MAL_LIP2	0,0379	0,0378	0,0375	0,0125	0,0143	0,0123
11000	CVD_FEM	0,0202	0,0198	0,0161	0,9584	1	0,9584
11000	HELD_MAL_ADR3ULN	0,0414	0,0384	0,0554	0,0307	0,0378	0,0344
11000	HELD_ALL_LIP2	0,0965	0,0965	0,096	0,0351	0,0358	0,0348
11000	HELD_MAL_ADR5ULN	0,0477	0,0555	0,0971	0,053	0,0607	0,0618
11001	HELD_MAL_LIP2	0,03	0,0288	0,0297	0,0103	0,0111	0,0102
11001	HELD_ALL_LIP2	0,0662	0,0652	0,0658	0,0235	0,0241	0,0232
11001	CVD_FEM	0,0325	0,0293	0,0266	0,9749	1	0,9749

BACKSNP.	COMPARISON	- St 31		7. T.	ALLELE		ALIDIA
		CPYAL	2.4.3	THE VAL	A STATE OF THE STA	XXXX	不同的现在分词
11001	HELD_MAL_ADR3ULN	0,0414	0,0384	0,0554	0,0307	0,0378	0,0344
11001	HELD_ALL_LIP	0,1116	0,1195	0,1013	0,0482	0,057	0,0473
11020	HELD_MAL_ADR3ULN	0,1685	0,1457	0,087	0,0596	0,0761	0,049
11073	HELD_FEM_LIP	0,111	0,1116	0,1085	0,0331	0,0361	0,0328
11073	HELD_ALL_CC2	0,096	0,0963	0,0954	0,0453.	0,0475	0,0437
11192	HELD_FEM_ADR5ULN	0,0153	0,0191	0,0329	0,2812	0,2901	0,2893
11192	HELD_FEM_ADR3ULN	0,0257	0,0216	0,0353	0,2446	0,3079	0,249
11248	HELD_FEM_ADR3ULN	0,0183	0,0153	0,0137	0,025	0,0322	0,0203
11248	HELD_ALL_ADR	0,1078	0,1144	0,1071	0,042	0,0434	0,0419
11410	HELD_FEM_VEFF	0,0091	0,0089	0,0085	0,088	0,0909	0,0879
11448	HELD_MAL_HDL	0,0019	0,0012	0,0015	0,0002	0,0003	0,0002
11448	HELD_MAL_LIP	0,0055	0,0027	0,0061	0,0034	0,005	0,0042
11448	HELD_MAL_LIP2	0,0059	0,0056	0,0058	0,0233	0,0245	0,0234
11448	HELD_ALL_LIP2	0,0108	0,0106	0,0109	0,0119	0,0124	0,012
11448	HELD_ALL_HDL	0,0647	0,0708	0,0648	0,0138	0,0215	0,0142
11448	HELD_FEM_ADR	0,0637	0,0601	0,0603	0,0162	0,0199	0,0156
11448	HELD_ALL_ADR	0,0576	0,0568	0,055	0,017	0,0209	0,0166
11448	HELD_ALL_CC	0,0976	0,1314	0,0453	0,0671	0,0727	0,0652
11450	HELD_MAL_LIP	0,0068	0,0052	0,0066	0,0007	0,0012	0,0009
11456	CVD_FEM	0,0026	0,0043	0,0016	0,0038	0,0058	0,0023
11462	HELD_MAL_LIP2	0,0302	0,0225	0,0284	0,0091	0,0109	0,0091
11462	HELD_ALL_LIP2	0,0406	0,0368	0,0362	0,0384	0,0431	0,0387
11483	HELD_FEM_ADR5ULN	0,032	0,0455	0,0589	0,0562	0,0771	0,0832
11483	HELD_FEM_ADR3ULN	0,0442	0,034	0,0495	0,0824	0,0989	0,0958
11483	HELD_FEM_ADR	0,0628	0,0468	0,045	0,1531	0,2	0,1477
11531	HELD_FEM_CC	0,1229	0,1273	0,0498	0,0189	0,0335	0,0137
11536	HELD_ALL_CC	0,0789	0,085	0,0365	0,7564	0,8525	0,7562
11537	HELD_MAL_ADR	0,1696	0,1625	0,1616	0,0467	0,0604	0,0455
11558	HELD_MAL_LIP2	0,0028	0,0023	0,0028	0,0058	0,0064	0,0058
11558	HBLD_ALL_LIP2	0,011	0,010	0,011	0,005	0,0054	0,005
11558	HELD_ALL_CC	0,0533	0,0503	0,05	0,102	0,1242	0,1013
11585	HELD_MAL_CC	0,0414	1 0,0372	0,0136	0,0108	0,0193	0,009

BAYSNP	COMPARISON:	GTYPE	CIMPE	GTYPE;	ALLEIT	ALLELE	ALLELE
		CPVAL	XPVAL	LRPVAE	CPVAL.	XPVXI.	LRPVAL.
11594	HELD_ALL_ADR3ULN	0,0819	0,0998	0,035	0,0195	0,0196	0,0069
11594	HELD_MAL_ADR .	0,0312	0,0403	0,0277	0,0365	0,0462	0,0324
11614	HELD_FEM_CC	0,0473	0,0577	0,0234	- 0,0572	0,0644	0,0587
11614	HELD_MAL_CC2	0,052	0,0518	0,0331	0,0346	0,0482	0,0373
11614	HELD_ALL_CC	0,0923	0,1151	0,0429	0,25	0,2653	0,2502
11614	HELD_ALL_HDL	0,0563	0,0558	0,0499	0,9149	1	0,9149
11631	HELD_MAL_ADR5ULN	0,0386	0,0478	0,0304	0,0117	0,0156	0,0155
11631	HELD_MAL_ADR3ULN	0,1371	0,1283	0,1422	0,046	0,0572	0,051
11637	HELD_FEM_LIP	0,0168	0,0155	0,0113	0,0321	0,0343	0,0317
11637	HELD_ALL_LIP	0,0303	0,0314	0,0288	0,0148	0,0186	0,0149
11637	CVD_MAL	0,0697	0,0701	0,0767	0,0248	0,0373	0,0272
11637	CVD_ALL	0,0723	0,0759	0,073	0,0254	0,0318	0,0262
11641	HELD_MAL_ADR	0,0142	0,0141	0,0129	0,126	0,1468	0,1257
11645	HELD_FEM_CC	0,0369	0,0544	0,0366	0,0456	0,0639	0,0454
11646	HELD_FEM_LIP	0,0865	0,0938	0,0854	0,0359	0,0387	0,0356
11646	HELD_ALL_LIP	0,0788	0,077	0,078	0,0438	0,0453	0,0431
11652	HELD_MAL_LIP	0,0422	0,0402	0,0403	0,9398	1	0,9398
11727	HELD_ALL_ADR5ULN	0,0133	0,0169	0,001	0,0033	0,0029	0,0001
11727	HELD_MAL_ADR3ULN	0,0139	0,0156	0,0019	0,0035	0,0042	0,0002
11727	HELD_MAL_ADR5ULN	0,0632	0,0556	0,0165	0,0205	0,0202	0,003
11727	HELD_ALL_ADR3ULN	0,0384	0,0373	0,0163	0,0076	0,0071	0,0036
11727	HELD_FEM_ADR5ULN	0,1918	0,2611	0,0649	0,0728	0,128	0,0182
11728	HELD_ALL_ADR5ULN	0,1462	0,1458	0,095	0,0556	0,0654	0,0388
11914	HELD_MAL_ADR3ULN	0,2466	0,3289	0,2216	0,0257	0,0387	0,0248
11938	HELD_ALL_ADR3ULN	0,0089	0,0095	0,0046	0,392	0,459	0,3897
11938	HELD_ALL_ADR5ULN	0,0169	0,0157	0,0114	0,8154	0,8766	0,815
11938	HELD_FEM_ADR3ULN	0,0449	0,0479	0,0352	0,6253	0,6469	0,6247
11950	HELD_MAL_ADR5ULN	0,0201	0,0516	0,0044	0,0125	0,0113	0,0014
11950	HELD_MAL_ADR3ULN	0,0154	0,0166	0,0066	0,0323	0,0548	0,0214
11950	HELD_MAL_ADR	0,0516	0,0613	0,0496	0,3586	0,4444	0,3582
11951	HELD_MAL_ADR5ULN	0,0424	0,0545	0,0114	0,0236	0,0423	0,0037
11951	HELD_FEM_UEFF	0,0259	0,0235	0,0107	0,0733	0,0868	0,0749

DAVSNE	ALCOMPARISON:	CEVER	Silveri.	CEVER	A GLECKE	ALLEGE	ALLEGIZ
	"我们"				A SALE TO THE PARTY OF THE PART	XPVAL	ERRYAL
12008	HELD_ALL_ADR	0,0485	0,062	0,0449	0,0524	0,0663	0,0486
12031	HELD ALL ADR3ULN	0,0028	0,0024	0,0026	0,63	0,7148	0,6303
12031	HELD FEM_ADR5ULN	0,0046	0,0039	0,0086	0,0566	0,0838	0,0562
12031	HELD ALL ADR5ULN	0,0047	0,0041	0,0086	0,0504	0,0658	0,0508
12031	HELD FEM ADR3ULN	0,0056	0,0063	0,006	0,2925	0,3532	0,2929
12031	HELD_ALL_ADR	0,0138	0,0141	0,0129	0,1033	0,113	0,1031
12031	HELD FEM ADR	0,0130	0,0143	0,0131	0,1206	0,1247	0,1203
	HELD_FEM_UEFF	0,0304	0,0139	0,0261	0,0076	0,0093	.0,0078
12032		0,0304	0,1063	0,0201	0,0343	0,0448	0,031
12032	HELD_FEM_ADR			0,0517	0,0359		0,0341
12032	HELD_ALL_ADR	0,0928	0,0748		ļ	0,0376	
12032	HELD_FEM_VEFF	0,0639	0,0469	0,0614	0,0748	0,0929	0,0737
12148	HELD_MAL_ADR5ULN	0,0166	0,0158	0,026	0,0087	0,0155	0,0126
12148	HELD_MAL_ADR	0,0376	0,0431	0,0328	0,0142	0,0207	0,0139
12148	HELD_MAL_ADR3ULN	0,0616	0,0647	0,085	0,0349	0,046	0,0398
12207 .	HELD_MAL_ADR5ULN	0,0034	0,0036	0,002	0,6147	0,7792	0,6195
12207	HELD_MAL_ADR	0,003	0,0028	0,002	0,1131	0,1259	0,1125
12207	'HELD_MAL_ADR3ULN	0,024	0,0181	0,0298	0,5888	0,6671	0,5919
12399	HELD_MAL_ADR5ULN	0,0204	0,0336	0,0287	0,0338	0,0497	0,0552
12399	HELD_MAL_ADR3ULN	0,0366	0,0602	0,0433	0,0568	0,0858	0,0714
12399	HELD_ALL_ADR	0,1174	0,109	0,1156	0,0393	0,0481	0,0386
12554	HELD_MAL_ADR	0,0489	0,0266	0,0384	0,0217	0,0303	0,0198
12554	HELD_FEM_VEFF	0,0785	0,0754	0,0774	0,0335	0,0365	0,0329
12851	HELD_FEM_ADR5ULN	0,0841	0,0704	0,087	0,0401	0,0635	0,0488
12851	HELD_MAL_ADR	0,0496	0,0509	0,0432	0,6573	0,6625	0,6573
13025	HELD_MAL_ADR3ULN	0,0572	0,0578	0,0424	0,8568	1	0,8564
13025	HELD_FEM_ADR5ULN	0,0508	0,0491	0,0749	0,2494	0,3182	0,2546
13191	HELD_ALL_CC	0,0795	0,0789	0,0666	0,0287	0,0329	0,0278
13192	HELD_MAL_ADR3ULN	0,0028	0,0047	0,0052	0,2629	0,3274	0,2753
13192	HELD_MAL_ADRSULN	0,0306	0,0985	0,1047	0,6516	0,7437	0,6584
13192	HELD_ALL_ADR3ULN	0,0459	0,0411	0,0633	0,9559	1	0,9559
13192	HELD_MAL_ADR	0,0927	0,0909	0,0428	0,7098	0,743	0,7097
13193	HELD MAL ADR3ULN	0,0022	0,0038	0,0046	0,2596	0,3258	0,2719 ·
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BAYSNP	COMPARISON	GTYPE	GTYPE	ETYPE;	ALTEE	ALLELE.	ALTELE:
		CPVAL	XPVAL	LRPVAL	CRVAL.	XEVAL	LRPVAL
13193	HELD_MAL_ADR5ULN	0,0227	0,0881	0,1013	0,5694	0,7373	0,5794
13193	HELD_ALL_ADR3ULN	0,0375	0,0347	0,0515	0,9356	1	0,9355
13338	HELD_FEM_UEFF	0,0314	0,033	0,0259	0,5721	0,5935	0,5716
13338	HELD_FEM_VEFF	0,0306	0,0309	0,03	0,8319	0,8624	0,8319
13339	HELD_MAL_ADR	0,0352	0,036	0,011	0,4768	0,5694	0,4767
13339	CVD_FEM	0,1362	0,0953	0,1082	0,0512	0,0803	0,0465
13340	HELD_FEM_VEFF	0,0158	0,0143	0,0137	0,0082	0,0095	0,0072
13479	HELD_FEM_UEFF	0,1063	0,0953	0,1076	0,0341	0,0364	0,0351
13633	HELD_FEM_ADR3ULN	0,0913	0,0763	0,1042	0,0317	0,037	0,0361
13633	HELD_FEM_ADR	0,1138	0,1293	0,1084	0,0387	0,0448	0,0384
13929	HELD_MAL_ADR5ULN	0,2957	0,2981	0,1308	0,1262	0,2119	0,0423
14065	HELD_FEM_EFF	0,087	0,0675	0,0858	0,0307	0,037	0,0303
14083	HELD_FEM_ADR	0,069	0,0657	0,0318	0,0353	0,0459	0,034
14085	HELD_FEM_EFF	0,0345	0,0318	0,0334	0,1267	0,1326	0,126
14087	HELD_FEM_EFF	0,0509	0,0493	0,0504	0,1138	0,1184	0,1138
14102	HELD_MAL_ADR5ULN	0,0062	0,0084	0,0014	0,8445	1	0,844
14102	HELD_FEM_EFF	0,1217	0,124	0,1207	0,0351	0,0391	0,035
14103	HELD_FEM_EFF	0,003	0,0023	0,0004	0,0567	0,0623	0,0565
14103	HELD_FEM_VEFF	0,0371	0,0337	0,0117	0,495	0,5329	0,4948
14103	HELD_FEM_UEFF	0,0605	0,0655	0,0291	0,0747	0,0807	0,076
14129	HELD_ALL_ADR3ULN	0,0384	0,0376	0,0479	0,1413	0,1647	0,1434
14129	HELD_MAL_ADR3ULN	0,0448	0,04	0,0567	0,3415	0,4056	0,3453
14326	HELD_FEM_EFF	0,1463	0,1445	0,1434	0,0461	0,0471	0,0457
14503	HELD_ALL_ADR5ULN	0,0052	0,0046	0,0021	0,6567	0,7349	0,6547
14503	HELD_ALL_ADR3ULN	0,0046	0,0045	0,004	0,5974	0,6922	0,5986
14503	HELD_FEM_ADR5ULN	0,0136	0,0123	0,0063	0,9862	1	0,9862
. 14503	HELD_FEM_ADR3ULN	0,0203	0,0189	0,0179	0,482	0,5051	0,4834
14537 .	HELD_ALL_ADR	0,0148	0,0153	0,0133	0,0049	0,0053	0,0048
14537	HELD_FEM_ADR	0,0395	0,0398	0,0332	0,0288	0,0309	0,0284
15915	HELD_FEM_ADR	0,0018	0,0013	0,0012	0,6403	0,6575	0,6405
15915	HELD_ALL_ADR	0,0037	0,0031	0,0029	0,4718	0,5008	0,4719
15915	HELD_ALL_ADR3ULN	0,1292	0,1365	0,0778	0,0267	0,0357	0,021

BAYSNIP	P-COMPARISON 5	CTAPE	GEYPE	COMPE	ALLONE	ADIALE.	ALLELE
		CPVAL	XPVAL	LRPYAE	ceval i	XPVXII	IREVIL.
19289	HELD_MAL_CC	0,0256	0,0181	0,0109	0,1599	0,2059	0,1642
19289	HELD_ALL_CC	0,0392	0,0216	0,0288	0,0989	0,1133	0,095
19289	HELD_MAL_LIP	0,0974	0,0892	0,0855	0,0474	0,0689	0,0515
36958	HELD_MAL_ADR3ULN	0,0804	0,108	0,0242	0,0926	0,1218	0,0274
37158	HELD_ALL_ADR	0,0266	0,0259	0,0248	0,0076	0,0078	0,0074
37158	HELD_FEM_ADR	0,0547	0,0511	0,047	0,0328	0,0384	0,0323
37160	HELD_FEM_UEFF	0,0494	0,0385	0,0291	0,0206	0,0238	0,0215
37412	HELD_FEM_ADR5ULN	0,0274	0,0301	0,0228	0,0901	0,1029	0,0965
37412	HELD_ALL_ADR5ULN	0,0463	0,0416	0,0443	0,1444	0,1838	0,1518
37412	HELD_FEM_ADR3ULN	0,1388	0,1374	0,1428	0,0436	0,0523	0,0457
37457	CVD_ALL	0,006	0,0043	0,0045	0,0004	0,0006	0,0005
37457	CVD_FEM	0,0618	0,0475	0,0371	0,0084	0,0138	0,0049
37457	CVD_MAL	0,1106	0,1397	0,1478	0,0425	0,0646	0,0633
37704	HELD_MAL_ADR5ULN	0,0093	0,1304	0,041	0,0096	0,1304	0,0423
38959	CVD_ALL	0,0357	0,0284	0,0234	0,7204	0,8145	0,7186
38959	HELD_FEM_EFF	0,0937	0,0903	0,0433	0,1155	0,1245	0,1149
39292	HELD_FEM_ADR5ULN	0,0461	0,0797	0,1143	0,0295	0,0406	0,0445
39292	HELD_ALL_ADR5ULN	0,2107	0,197	0,2673	0,0487	0,0566	0,0656
39698	HELD_MAL_ADR3ULN	0,0549	0,0575	0,0339	0,1964	0,2316	0,1955
39756	HELD_FEM_ADR3ULN	0,1838	0,1894	0,1779	0,0494	0,069	0,0449
39951	HELD_MAL_ADR	0,0126	0,0133	0,0027 -	0,1824	0,227	0,1816
39951	HELD_ALL_ADR	0,0036	0,0033	0,0031	0,7179	0,7614	0,7178
39951	HELD_FEM_ADR	0,0243	0,023	0,0233	0,0941	0,102	0,0932
39951	HELD_FEM_ADR5ULN	0,0673	0,0646	0,0583	0,0366	0,0423	0,0421
40466	HELD_FEM_EFF	0,0024	0,002	0,0009	0,0045	0,0058	0,0044
40466	HELD_FEM_UEFF	0,0802	0,0728	0,0265	0,0419	0,0518	0,0382
40466	HELD_FEM_VEFF	0,0511	0,0458	0,0386	0,0313	0,0339	0,0309
44442	HELD_MAL_ADR5ULN	0,0836	0,079	0,0743	0,0364	0,0585	0,0418
55504	HELD_MAL_ADR	0,0719	0,0735	0,0691	0,0286	0,0345	0,0284
55542	HELD_FEM_ADR	0,0351	0,0377	0,0327	0,0223	0,0271	0,0221
55670	HELD_FEM_VBFF	0,0177	0,0252	0,0172	0,0215	0,03	0,0208
55736	HELD_ALL_ADR5ULN	0,0576	0,0583	0,0098	0,0205	0,0356	0,0023

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If a district the second	COMPARISON	GTYPE	GFYPE	GTYPE:	ALLELE	ALCELEA	ACTEE
		CPVAL	XPVAL	TERPVAL	ORVAL.	XEVAL	IRPVAL.
55736	HELD_MAL_ADR5ULN	0,0618	0,087	0,0194	0,0901	0,1202	0,0263
- 55736	HELD_FEM_ADR5ULN	0,3245	0,4065	0,1534	0,1163	0,2053	0,0385
55748	HELD_MAL_ADR5ULN	0,3118	0,3008	0,1412	0,134	0,2136	0,0461
55813	HELD_ALL_ADR3ULN	0,0935	0,0976	0,0867	0,0234	0,0248	0,0235
55845	HELD_FEM_VEFF	0,026	0,0242	0,0254	0,0129	0,0138	0,0128
55845	HELD_MAL_ADR3ULN	0,0952	0,0988	0,0453	0,0432	0,0619	0,0372
55845	HELD_FEM_UEFF	0,1378	0,142	0,1358	0,045	0,0588	0,0453
55923	HELD_FEM_ADR	0,0587	0,058	0,0556	0,0191	0,0224	0,0187
55923	HELD_FEM_ADR3ULN	0,0606	0,0562	0,0659	0,0213	0,0267	0,0222
55945	HELD_FEM_ADR	0,0125	0,0109	0,0112	0,0031	0,0035	0,003
55945	HELD_FEM_ADR3ULN	0,0381	0,0379	0,0442	0,0127	0,0185	0,0137
55945	HELD_ALL_ADR	0,0809	0,0801	0,0782	0,0292	0,0327	0,029
56007	HELD_MAL_ADR3ULN	0,0308	0,0293	0,005	0,1915	0,2107	0,1828
56007	HELD_MAL_ADR5ULN	0,139	0,1477	0,0466	0,2654	0,2957	0,2514
56011	HELD_ALL_ADR5ULN	0,1056	0,2178	0,0322	0,1135	.0,2277	0,0343
56104	HELD_FEM_UEFF	0,0155	0,0153	0,0149	0,0164	0,0198	0,0166
56113	HELD_ALL_ADR5ULN	0,0186	0,0163	0,0264	0,0347	0,0387	0,0352
56113	HELD_ALL_ADR3ULN	0,0285	0,029	0,0276	0,3219	0,3794	0,3228
56113	HELD_FEM_ADR5ULN	0,0402	0,0472	0,0536	0,036	0,0498	0,0358
56113	HELD_FEM_ADR3ULN	0,0416	0,0401	0,0432	0,1311	0,1519	0,1314
56636	HELD_FEM_ADR	0,0108	0,0106	0,0098	0,5577	0,6169	0,5576
.56636	HELD_FEM_ADR3ULN	0,0227	0,0223	0,0215	0,7019	0,7532	0,7016
56636	HELD_FEM_ADR5ULN	0,0271	0,0247	0,027	0,8077	0,8498	0,8079
56666	HELD_MAL_ADR3ULN	0,2121	0,3446	0,0763	0,0154	0,0133	0,0018
56666	HELD_MAL_ADR5ULN	0,3794	0,418	0,1913	0,0556	0,0716	0,0122
56666	HELD_MAL_ADR	0,1717	0,119	0,136	0,0173	0,0265	0,0154
56667	HELD_FEM_EFF	0,0364	0,0372	0,0356	0,0134	0,014	0,0133
56667	HELD_MAL_ADR3ULN	0,2981	0,4124	0,2471	0,0382	0,0579	0,0311
56667	HELD_FEM_ADR3ULN	0,1228	0,1267	0,1124	0,0483	0,0586	0,0492
56780	HELD_FEM_ADR3ULN	0,0149	0,0159	0,008	0,012	0,0164	0,0117
56780	HELD_FEM_ADR	0,0227	0,0214	0,0192	0,012	0,0154	0,0118
56780	HELD_ALL_ADR3ULN	0,0269	0,0274	0,019	0,0143	0,0182	0,0141
30/80	TELD_ALL_ADK3ULN	U,U269	0,0274	0,019	0,0143	0,0182	0,0141

BAYSNE	COMPARISON	Mrs. War d	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	77.	TALL SALES		ALLELE
		CPVAL	XPVAE.	LREVAL	CPVAL	XIVAL.	LRPVAE
56780	HELD_ALL_ADR	0,0842	0,0843	0,0808	0,0435	0,0453	0,0433
56876	HELD_FEM_UEFF	0,0372	0,0266	0,0308	0,0169	0,0232	0,0141
56876	HELD_FEM_EFF	0,0424	0,0386	0,0418	0,0166	0,0177	0,0163
56876	HELD_FEM_VEFF	0,0713	0,0569	0,0692	0,0196	0,0216	0,0192
56978	HELD_ALL_ADR5ULN	0,0719	0,0767	0,0535	0,0154	0,0156	0,0118
57000	HELD_FEM_VEFF	0,0174	0,0176	0,0169	0,3734	0,4158	0,3731
57000	HELD_FEM_UEFF	0,0415	0,0406	0,0369	0,858	0,8914	0,8579
57000	CVD_ALL	0,0418	0,0488	0,0445	0,0607	0,0713	0,0637
57000	CVD_MAL	0,0441	0,0754	0,0552	0,1657	0,2666	0,1782
57313	HELD_FEM_UEFF	0,034	0,0307	0,0344	0,1193	0,15	0,1201
57734	HELD_FEM_ADR3ULN	0,1496	0,1859	0,1593	0,0475	0,0622	0,0534
57837	HELD_MAL_ADR3ULN	0,1875	0,2505	0,1226	0,0606	0,0663	0,0405
57853	HELD_FEM_EFF	0,0026	0,0022	0,0012	0,0086	0,0107	0,0084
57853	HELD_FEM_UEFF	0,0504	0,0448	0,0138	0,0301	0,0444	0,0274
57853	HELD_FEM_VEFF	0,042	0,0386	0,0288	0,0505	0,0562	. 0,0501
57854	HELD_FEM_EFF	0,0212	0,0209	0,0157	0,0665	0,0761	0,0663
57854	HELD_FEM_UEFF	0,0736	0,0661	0,0242	0,0496	0,068	0,0464
57854	HELD_MAL_ADR3ULN	0,1957	0,2011	0,1232	0,0634	0,0859	0,0467
58295	HELD_MAL_ADR	0,0215	0,0221	0,0192	0,0596	0,0793	0,0593
58402	HELD_MAL_ADR3ULN	0,253	0,3601	0,2207	0,0277	0,0317	0,0255
58407	HELD_FEM_VEFF	0,009	0,0089	0,0086	0,6756	0,7344	0,6756
58407	HELD_FEM_UEFF	0,0269	0,0254	0,019	0,1833	0,1983	0,1819
58440	HELD_FEM_UEFF	0,1021	0,1012	0,1022	0,0294	0,0358	0,0305
58525	HELD_FEM_ADR	0,0008	0,0004	0,0004	0,0002	0,0003	0,0001
58525	HELD_FEM_ADR3ULN	0,0005	0,0002	0,0008	0,0002	0,0006	0,0005
58525	HELD_FEM_ADR5ULN	0,0002	0,0005	0,0011	0,0009	0,0042	0,0034
58525	HELD_ALL_ADR	0,0309	0,0274	0,0284	0,0041	0,005	0,0037
58525	HELD_ALL_ADR5ULN	0,0115	0,0352	0,0209	0,0263	0,0423	0,0412
58525	HELD_ALL_ADR3ULN	0,0304	0,0391	0,0408	0,0158	0,0198	0,021
58533	HELD_FEM_ADR	0,0132	0,0076	0,011	0,0024	0,0033	0,0019
58533	HELD_FEM_ADR3ULN	0,0373	0,0325	0,0534	0,0101	0,0153	0,0155
58533	HELD_FEM_ADR5ULN	0,025	0,0368	0,0556	0,0387	0,0613	0,0658

BAYSNE	COMPARISON .	GTYPE	GTYPE	GTYPE'	ALLEIE	ALLELE	ALLELE-
		CPVAL	XPVAL	LRPVAL	CPVAL	XPVAL	LRPVAL
58533	HELD_ALL_ADR	0,1948	0,2046	0,1921	0,0446	0,0584	0,0438
58544	HELD_MAL_ADR5ULN	0,2134	0,1955	0,0875	0,0754	0,1197	0,02
5,8716	HELD_MAL_ADR3ULN	0,0222	0,0288	0,011	0,0012	0,0018	0,0003
58716	HELD_MAL_ADR5ULN	0,1918	0,256	0,1602	0,0649	0,0886	0,047
58736	HELD_FEM_EFF	0,0378	.0,0385	0,0374	0,0117	0,0131	0,0117
58808	HELD_FEM_ADR	0,0754	0,076	0,0739	.0,0276	0,0333	0,0275
58809	HELD_MAL_ADR5ULN	0,1338	0,1368	0,0404	0,0454	0,0777	0,0088
58809	HELD_ALL_ADR3ULN	0,0117	0,011	0,0202	0,0915	0,1137	0,099
58809	HELD_MAL_ADR3ULN	0,0206	0,0207	0,0247	0,2401	0,3238	0,253
58809	HELD_FEM_UEFF	0,1023	0,1072	0,0586	0,0482	0,0528	0,0446
58886	HELD_FEM_ADR3ULN	0,0432	0,0444	0,0387	0,0115	0,0145	0,0107
58886	HELD_ALL_ADR3ULN	0,0611	0,0627	0,0549	0,0171	0,0233	0,0168
58886	HELD_ALL_ADR5ULN	0,1212	0,1272	0,097	0,0433	0,049	0,0427
58926	HELD_MAL_ADR3ULN	0,0186	0,0222	0,0152	0,0031	0,005	0,0036
58926	HELD_ALL_ADR5ULN	0,0504	0,0525	0,0476	0,0108	0,0121	0,0117
58926	CVD_FEM	0,0461	0,0455	0,0419	0,7899	0,8184	0,7899
58926	HELD_MAL_ADR5ULN	0,1263	0,1409	0,1002	0,0427	0,0517	0,0487
58968	HELD_ALL_ADR5ULN	0,0212	0,0248	0,0199	0,0023	0,003	0,003
58968	HELD_MAL_ADR3ULN	0,0412	0,0375	0,0377	0,0067	0,0098	0,0085
58968	HELD_ALL_ADR3ULN	0,1321	0,1309	0,1338	0,0208	0,028	0,0226
58968	HELD_FEM_ADR5ULN	0,1447	0,1579	0,1408	0,0233	0,0292	0,0261
58985	HELD_ALL_ADR5ULN	0,0341	0,0303	0,0449	0,0085	0,0129	0,0104
59113	HELD_MAL_ADR5ULN	0,0156	0,0224	0,0114	0,0006	0,0008	0,0003
59113	HELD_MAL_ADR3ULN	0,0577	0,0875	0,0558	0,0073	0,009	0,0068
59236	HELD_ALL_ADR	0,0163	0,0158	0,0148	0,0638	0,077	0,0636
59236	HELD_ALL_ADR3ULN	0,0152	0,0151	0,017	0,3664	0,3858	0,3685
59236	HELD_FEM_ADR	0,0242	0,0266	0,0221	0,0693	0,0722	0,0689
59237	HELD_FEM_VEFF	0,021	0,0197	0,0205	0,9766	1	0,9766
59237	HELD_FEM_EFF	0,0278	0,0283	0,0273	0,5742	0,6002	0,5742
59267	HELD_FEM_UEFF	0,0007	0,0006	0,0005	0,0035	0,0042	0,0036
59352	HELD_MAL_ADR	0,0234	0,0233	0,0219	0,6204	0,6787	0,6203
59352	HELD_ALL_ADR	0,0427	0,0412	0,0406	0,8742	0,925	0,8742

BAYSNE	COMPARISON:	CTYPE	CTXPE	CTYPE	ALLELE	AFLECE	Webblie,
		GEVAL	XPVAL	IRPVAL	CPVAL	XPVAL	LIMPVAL
59363	CVD_MAL	0,0678	0,0736	0,0797	0,0336	0,0422	0,0351
59368	HELD_FEM_ADR	0,0119	0,0127	0,0096	0,0049	0,0053	0,0048
59371	HELD_FEM_VEFF	0,0024	0,0022	0,0021	0,1509	0,1694	0,1508
59371	HELD_FEM_UEFF	0,0098	0,0099	0,0092	0,2681	0,286	0,2686
59372	HELD_MAL_ADR	0,1687	0,1722	0,1609	0,0282	0,042	0,0273
59372	HELD_MAL_ADR3ULN	0,22	0,2638	0,2592	0,0467	0,0804	0,0599
59443	HELD_ALL_ADR5ULN	0,0027	0,0031	0,0018	0,366	0,4699	0,3621
59443	HELD_MAL_ADR5ULN	0,0416	0,036	0,0368	0,877	1	0,877
900080	HELD_FEM_ADR3ULN	0,0248	0,0243	0,0334	0,0078	0,0122	0,011
900080	HELD_FEM_ADR5ULN	0,0307	0,0334	0,0528	0,0422	0,0571	0,0639
900102	HELD_FEM_UEFF	0,0079	0,0078	0,008	0,0043	0,0057	0,0041
900102	HELD_FEM_VEFF	0,0423	0,0413	0,0416	0,0163	0,0185	0,0162
900111	HELD_FEM_UEFF	0,022	0,0232	0,0222	0,0107	0,012	0,0103
900111	HELD_FEM_VEFF	0,0524	0,0496	0,0516	0,0293	0,0351	0,0292
900117	HELD_MAL_LIP	0,049	0,0534	0,022	0,0073	0,0136	0,0043
900118	HELD_FEM_EFF	0,0013	0,0008	0,001	0,0001	0,0002	0,0001
900118	HELD_FEM_VEFF	0,1013	0,0874	0,0978	0,0214	0,0303	0,0206
900118	HELD_FEM_ADR5ULN	0,0424	0,0506	0,0251	0,8579	1	0,8561
900118	HELD_ALL_ADR5ULN	0,0702	0,0623	0,0401	0,653	0,7517	0,6608
900120	HELD_FEM_EFF	0,0101	0,0092	0,007	0,0095	0,0109	0,0093
900121	HELD_FEM_EFF	0,0944	0,0944	0,0922	0,0477	0,0488	0,0476
900123	HELD_ALL_ADR	0,0402	0,0568	0,0164	0,041	0,0576	0,0168
900123	HELD_FEM_ADR	0,0678	0,1074	0,0341	0,0695	0,1089	0,0349
900124	HELD_FEM_EFF	0,0185	0,0181	0,0177	0,0602	0,0663	0,0601
900132	HELD_FEM_ADR	0,0215	0,0178	0,0068	0,2283	0,2679	0,2288
900144	CVD_FEM	0,0319	0,0744	0,0093	0,0361	0,0813	0,0104
900144	HELD_ALL_ADR5ULN	0,1356	0,2119	0,0476	0,1425	0,2202	0,0497
900145	CVD_FEM	0,0702	0,0367	0,0231	0,4142	0,4698	0,4044
900145	HELD_ALL_ADR5ULN	0;1364	0,2117	0,0481	0,1436	0,2203	0,0504
900146	HELD_FEM_ADR5ULN	0,0096	0,017	0,0195	0,0366	0,0413	0,0447
900146	HELD_FEM_CC	0,0751	0,0844	0,0429	0,4385	0,4606	0,4405
900146	HELD_MAL_ADR	0,1074	0,1347	0,0497	0,2672	0,3098	0,2671

BAYSNE	· COMPARISON:	CTYPE	CLYPE	GTYPE	AELELE	ALLEEE 2	ALLELE
		CPVĂĹ	XPVAL	LRPVAL	PVAL	XPVAL	ERPYAL
900147	HELD_ALL_ADR3ULN	0,0572	0,0567	0,0416	0,0133	0,015	0,0104
900147	HELD_FEM_ADR3ULN	0,0435	0,0527	0,0381	0,0166	0,0182	0,0127
900196	HELD_MAL_LIP	0,04	0,0376	0,0365	0,0037	0,0057	0,0039
900196	HELD_FEM_LIP	0,0183	0,019	0,0214	0,0168	0,0301	0,0136
900196	HELD_FEM_ADR3ULN	0,0672	0,0693	0,022	0,0238	0,0276	0,0198
900196	CVD_FEM	0,0398	0,0432	0,0293	1	1	1
900196	CVD_ALL	0,0617	0,0655	0,0425	0,1649	0,2139	0,1618
900200	CVD_FEM	0,0865	0,0948	0,0822	0,0359	0,0545	0,0381
900204	HELD_FEM_EFF	0,0051	0,0054	0,005	0,0195	0,0204	0,0194
900205	HELD_FEM_EFF	0,0128	0,0126	0,0126	0,0746	0,0753	0,0745
900205	CVD_MAL	0,0881	0,0873	0,0279	0,0497	0,0672	0,045
900223	HELD_FEM_ADR	0,1823	0,2018	0,1522	0,0357	0,0826	0,0327
900225	HELD_ALL_ADR5ULN	0,0532	0,0765	0,011	0,0615	0,0864	0,0125
900225	HELD_MAL_ADR3ULN	0,0804	0,108	0,0242	0,0926	0,1218	0,0274
900227	HELD_FEM_ADR5ULN	0,076	0,0933	0,0368	0,0271	0,031	0,0108
900233	HELD_FEM_ADR5ULN	.0,0314	0,0303	0,024	0,3185	0,3387	0,3136
900236	HELD_FEM_ADR3ULN	0,0378	0,0275	0,0387	0,0494	0,064	0,0568
900236	HELD_MAL_ADR5ULN	0,2375	0,2927	0,0919	0,0994	0,13	0,0289
900241	HELD_FEM_EFF	0,0225	0,0223	0,0219	0,6377	0,6538	0,6376
900242	HELD_ALL_ADR5ULN	0,0164	0,0165	0,0012	0,0015	0,0017	0
900242	HELD_ALL_ADR3ULN	0,0158	0,0151	0,0031	0,0007	0,0006.	0,0002
900242	HELD_FEM_ADR5ULN	0,0257	0,0467	0,0032	0,0088	0,0105	0,0007
900242	HELD_MAL_ADR3ULN	0,1963	0,3073	0,0673	0,0132	0,0144	0,0014
900242	HELD_FEM_ADR	0,0219	0,0117	0,0142	0,006	0,0067	0,0053
900242	HELD_FEM_ADR3ULN	0,0542	0,0556	0,0305	0,0161	0,0247	0,0091
900242	HELD_ALL_ADR	0,0373	0,0359	0,0352	0,0146	0,0152	0,0142
900242	HELD_MAL_ADR5ULN	0,416	0,4311	0,2189	0,0691	0,1332	0,0165

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<u>Table 6a</u> Correlation of genotypes of PA SNPs to relative risk

For diagnostic conclusions to be drawn from genotyping a particular patient we calculated the relative risk RR1, RR2, RR3 for the three possible genotypes of each SNP. Given the genotype frequencies as

	gtype1	gtype2	gtype3
case	N11	N12	N13
control	N21	N22	N23

we calculate

$$RR1 = \frac{N11}{N21} / \frac{N12 + N13}{N22 + N23}$$

$$RR2 = \frac{N12}{N22} / \frac{N11 + N13}{N21 + N23}$$

$$RR3 = \frac{N13}{N23} / \frac{N11 + N12}{N21 + N22}$$

Here, the *case* and *control* populations represent any case-control-group pair, or bad(case)-good(control)-group pair, respectively (due to their increased response to statins, 'high responders' are treated as a case cohort, whereas 'low responders' are treated as the respective control cohort). A value RR1>1, RR2>1, and RR3>1 indicates an increased risk for individuals carrying genotype 1, genotype 2, and genotype 3, respectively. For example, RR1=3 indicates a 3-fold risk of an individual carrying genotype 1 as compared to individuals carrying genotype 2 or 3 (a detailed description of relative risk calculation and statistics can be found in (Biostatistics, L. D. Fisher and G. van Belle, Wiley Interscience 1993)). The baySNP number refers to an internal numbering of the PA SNPs and can be found in the sequence listing. null: not defined.

In cases where a relative risk is not given in the table (three times zero or null) the informative genotype can be drawn from the right part of the table where the frequencies of genotypes are given in the cases and control cohorts. For example BaySNP 3360 gave the following results:

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BAYSNP	COMPA	RISON	GTYPE1.	GTYPE2	GTYPE3	'RRI	RR2	- RR 3
3360		ADRSULN	GG	GT	TT	null	0.	0

FQ1_A	.,FQ2_A	FQ3 A	FQ1 B.	FQ2_B	FQXB
10	0	0	50	22	1

It can be concluded that a GT or TT genotype is only present in the control cohort; these genotypes are somehow protective against ADR. An analogous proceeding can be used to determine protective alleles if no relative risk is given (table 6b).

ह्यसंब														· _							- 1	
JAKE 102 B	92	137	109	21	21	14	7	245	3	162	37	87	87	15	15	29	29	36	16	62	62	30
regol B	80	125	119	22	29	30	27	317	41	512	71	151	151	62	26	219	219	224	102	196	196	98
SIZE B	28	131	114	39	25	22	17	281	. 22	337	54	119	119	95	95	124	124	130	59	129	129	28
PROPERTY SISTER BURNESS BURNESS B	60	40	76	44	16	31	13	252	17	119	6	21	42	2	3	\$	22	5		34	19	15
BRIGHT NIZE A TREOLA	100	54	122	42	20	27	15	254	45	493	7	25	46	14	29	45	234	83	33	09	31	19
A STATE	08	47	66	43	18	29	14	253	31	306	∞	23	4	∞	16	25	128	4	17	47	25	17
200 200 200 200 200 200 200 200 200 200	0,79	0,75	0,81	1,6	1,06	1,45	1,82	1,14	1,62	98,0	2,18	1,37	1,39	0,93	0,72	98'0	0,84	0,45	0,24	1,51	1,72	1,84
	1,26	1,33	1,23	69'0	940	69'0	0,55	98,0	79,0	1,16	0,46	0,73	0,72	1,07	1,38	1,16	1,2	2,22	4,16	99'0	0,58	0,54
COMPARISON	HELD_FEM_LIP	HELD_ALL_ADR3ULN	HBLD_ALL_LIP	HELD_ALL_CC	HELD_MAL_HDL	HELD_FEM_CC	HELD_MAL_CC	HELD MAL LIP2	HELD FEM CC	HELD_MAL_LIP2	HELD_MAL_ADRSULN	HELD_ALL_ADRSULN	HELD_ALL_ADR3ULN	HELD MAL ADRSULN	HELD_MAL_ADR3ULN	HELD_ALL_ADRSULN	HELD_ALL_ADR	HELD_ALL_ADR3ULN	HELD_MAL_ADR3ULN	HBLD_ALL_ADR3ULN	HELD_ALL_ADRSULN	HELD_MAL_ADR3ULN
ALLELE3	G	G	Ð	Ð	Ð	Ð	ß	Ð	T	T	Ą	Ą	Ą	Ą	Ą	A	Ą	C	C	A	Ą	A
	A	4	Ą	ပ	U	ပ	ပ	U	O	Ŋ	Ö	Ö	0	Ö	O	O	හ	O	O	0	0	0
BAYSNR ALLELE	29	29	29	52	52	52	52	52	57	118	137	137	137	179	179	179	179	240	240	241	241	241

																					_	
FREQ2_B	27	71	27	19	17	5	4	19	52	13	. 8	15	28 .	5 .	55	41	. 43	36	8	99	26	13.
THE STREET A LINEOU SA THEFOR A STREET HE PREOFURL FREED THE	119	11	17	129	125	225	154	47	0 .	<i>L</i> 9	28	\$\$	86	39	66	65	113	82 .	44	158	52	55
SIZE B	73	74	22	74	11	115	62	33	56	40	18	35	£9 ·	77	74	95	8/	65	26	112	39	34
FREG2.A	99	85	24	44	28	0	0	16	10	31	14	17	99	17	102	17	58	4	32	41	16	19
FREQ1 -	146	123	38	162	118	200	162	120	30	.57	12	21	126	45	106	51	86	12	56	151	72	119
Siza A	101	104	31	103	73	100	81	89	20	4	13	19	96	31	104	34	78.	8	44	96	4	69
BRZ	1,22	68'0	89'0	1,25	1,28	0	0	0,64	0,16	1,53	2,12	1,92	1,25	4,1	1,22	0,63	1,24	0,78	1,43	0,78	99'0	0,87
8	0,82	1,13	1,47	8,0	0,78	ם	File	1,57	6,2	9,65	0,47	0,52	8,0	69,0	0,82	1,58	0,81	1,28	0,7	1,28	1,52	1,15
COMPARISON . RRELI	CVD_ALL	CVD_ALL	HELD_FEM_CC	CVD_ALL	HELD_FEM_ADR	HELD_ALL_LIP	HELD_FEM_LIP	CVD_MAL	HELD_MAL_HDL	HELD_ALL_CC	HELD MAL CC	HELD_MAL_LIP	CVD_ALL	HELD_FEM_CC	CVD_ALL	HELD ALL HDL	HELD FEM LIP	HELD MAL ADRSULN	HELD_MAL_CC2	HBLD_ALL_LP	HELD_ALL_CC	CVD_MAL
ALLELEZ	U	Ð	Ð	A	Ą	T	T	A	Ą	Ą	A	Ą	A	A	U	ß	Ð	O	A	Ą	A	C
	ט	ပ	D .	ტ .	O	ပ	ပ	Ö	Ö	ŋ	O	g	b	ტ	¥	A	A.	ტ	O	O	U	T
BAXSNP ALLELEI	288	. 384	384	533	542	576.	576	809	614	614	614	614	614	614	738	1056	1056	1092	1524	1524	1524	1574

IR P (02 B	23	29	29	8	. 81	6	98	. 29	175	42	42	20	22	20	91	49	72	91	58	55	24	.04
KREQL B	83	. 37	37	104	28	33	206	87	39	172	172	98	86	. 86	173	109	158	173	100	<u>76</u>	20	40
SEZE B	53	33	33	99	38	21	152	. 85	107	101	101	· 83	- 54	E S	132	62	115	132	62	9 <i>L</i> .	22	40
rigids x	2	17	47.	4	27	22	119	34	171	5	2	14	4	1	21	42	55	73	75	39	18	29
RECORT	30	29	6/	14	63	40	177	8	29	75	40	0	50	25	75	120	145	195	85	121	4	61
STATE AND	16	23	63	6	45	31	148	. 29	100	94	21	7	7.7	13	48	81	100	134	08	08	31	45
al la	6,0	0,84	16'0	2,81.	1,15	1,3	1,19	1,06	1,16	0,35	0,24	Ing	0,42	0,21	0,62	0,88	6,0	0,84	1,23	0,75	0,62	. 0,7
	3,32	1,19	1,1	0,36	0,87	0,777	0,84	0,94	98'0	2,85	4,15	0	2,39	4,73	1,61	1,14	1,11	1,19	0,81	1,34	1,6	1,4
COMPARISON - THRIS STATE MIRRORISM INCHOS. N. SICH. B. BRROT. B. BRROT. B. BRROT. B.	HELD_MAL_ADR3ULN	HELD FEM EFF	CVD_MAL	HELD_MAL_ADRSULN	HELD_ALL_CC	HELD_FEM_CC	HELD FEM VEFF	HELD_MAL_ADR	HELD_ALL_LP	HELD_ALL_ADR3ULN	HBLD_ALL_ADRSULN	HELD MAL ADRSULN	HELD FEM ADR3ULN	HELD MAL ADR3ULN	HELD_ALL_ADR3ULN	HELD_FIEM_LIP	HELD_ALL_LIP.	HELD_ALL_ADR	HBLD_FEM_LIP	HELD_FEM_LIP	HELD_FRM_CC	HELD_ALL_CC
ALLELES	C	H	ပ	Ħ	Ą	Ą.	Ą	Ą	Ð	O	O	O	C	C	T	T	T	T	B	T	T	T
BAYSNP ALLELET	T .	Ü	Ŧ	ပ	Ð	Ö	Ð	Ð	Ą	Ţ	T	T	T	T	O	O	O	Ö	Ą	O	O	Ф
BAYSNP	1582	1657	1722	1756	1757	1757	1757	1757	1765	1767	1767	1767	1767	1767	1837	1837	1837	1837	1854	1862	2085	2085

135.55	_						·							·		. ,						
FREO2 B	4	14	13	20	291	. 98	24	56	88	25	. 05	56	33	26	6	35	13.	. 13	19	13	19	33
FREO! B	32	99	31	92	1109	120	40	94	. 068	73	194	78	121	78	109	107	. 127	127	233	127	233	125
SIZE B	18	40	22	. 48	700	78	32	09	239	49	122	52	11	25	- 65	11	02	0/	126	0/	126	62
TREO2 A	13	28	4	8	213	21	20	7	58	12 ·	31	2	15	16	4	23	1	. 09	9	32	2	54
TRANSPORTED STREET OF TREE OF STREET BETTER TO BE	15	62	34	70	1035	139	41	62	416	80	207	30	91	100	14	37	137	0	258	0	92	106
S ZEE W	14	45	19	39	624	8	17	43	237	46	119	16	53	58	6	30	. 69	30	132	16	47	80
2	2,4	1;38	0,45	9,0	88,0	69'0	1,75	0,46	0,77	0,62	0,74	0,26	0,73	89'0	2,7	1,54	0,14	Ting .	0,46	冒	0,34	1;35
	0,42	0,73	2,22	1,68	1,14	1,46	0,57	2,15	1,3	1,61	1,35	3,89	1,37	1,47	0,37	0,65	7,27	0	2,19	0	2,97	0,74
COMBARISON	HBLD_MAL_CC	HELD_ALL_CC	HELD_MAL_HDL	HELD_ALL_HDL	HELD_ALL_LIP2	HELD FEM LIP	HELD_MAL_LIP	HELD_FEM_UEFF	HELD FEM BFF	HELD_MAL_ADR	HELD_FEM_VEFF	HELD MAL ADR3ULN	HELD FEM UBFF	HBLD_MAL_ADR	HELD MAL ADRSULN	HELD FRM ADR3ULN	HELD_FEM_ADR	HELD FEM ADR3ULN	HELD_ALL_ADR	HELD FEM ADRSULN	HELD_ALL_ADR3ULN	HBLD_FEM_LIP
ALLELE2	T	T	Ð	Ö	Ð	ъ	T	T	T	T	T	Ą	A	Ą	O	T	A	Ą	Ą	A	Ą	O
	U	O	¥	A	Ą	¥	O	Ð	Ð	Ð	O	O	Ö	Ö	Ŀ	ပ	Ö	. 0	G	ტ	O	L
BAYSNP ALLELE	2093	2093	2109	2109	2109	2109	2124	2140	2140	2140	2140	2141	2141	2141	2186	2187	2192	2192	2192	2192	2192	2203

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STATA NEW OFTEN PRESSON STATE BETREOLE BURE OF B	59	ۍ.	12	14	18	17 .	2	56	56	56	275	0	13	4	9	335	34	27	72	44	47	54
FRECI_B	171	29	68	30	18	53	34	52	52	52	287	42	63	94	36	1117	1400	119	0	0	663	.98
SIZEE	115	17	40	22	18	32	18	54	54	54	281	21	38	49	21	726	717	73	36	22	370	70
FREOZA	68	12	3	36	8	2	10	48	7	12	291	15	7	22	4	333	47	28	7	9	42	75
REGEA	128	14	63	26	70	32	18	70	11	22	249	117	83	178	58	726	1193	9/	81	54	572	69
SIZE A	88	13	33	31	41	17	14	59	6	17	270	99	45	100	31	. 069	970	52	4	30	307	72
100	1,25	2,17	0,42	1,55	95'0	0,28	2,41	8,0	0,64	0,59	1,11	1,36	0,62	1,29	9,65	1,1	1,26	1,31	0,09	0,12	1,04	1,31
AM IME	8,0	0,46	2,4	0,64	1,71	3,58	0,42	1,24	1,57	1,68	6,0	0,74	1,62	0,77	1,54	16,0	0,79	0,77	11,29	8,33	96,0	0,77
COMPARTEON	HELD_ALL_LIP	HELD_MAL_CC	CVD_FEM	HELD_FEM_CC	HELD_MAL_CC	HELD_MAL_LIP	HBLD_MAL_CC	HELD_MAL_ADR	HELD_MAL_ADRSULN	HELD_MAL_ADR3ULN	HELD_FEM_BFF	CVD_MAL	HELD_ALL_CC	CVD_ALL	HELD_FEM_CC	HELD_ALL_LIP2	HELD_ALL_LIP2	HBLD_FBM_UBFF	HELD_ALL_CC	HELD_FEM_CC	HELD_FEM_LIP2	HELD_FRM_ADR
ALLELEZ	O	T	Ţ	υ	O	¥	Ð	O	S	ပ	O	O	Ð	Ð	D	υ	F	ß	U	O	O	ß
BAYSNP ALLELEI ALL	T	0	O	¥	4	ß	¥	Ą	Ą	¥	¥	A	A	Ą	Ą	Ą	O	T	T	T	T	A
BAYSNP	2203	2217	2217	2281	2281	2284	2290	2327	2327	2327	2327	2353	2353	2353	2353	. 2371	2376	2401	2463	2463	2463	2755

FREOZ-IB	94	235	156	88	13	100	53	. 0	5	53	17	24	17	0	. 0	0	17	10	62	7.	26	103
m zogua a nogua a azas kizogua kitogua mengin	162	333	134	99	49	116	231	120	31 .	49	71	156	11	126	09	99	. 17	20	84	141	46	161
SIZIS	128	784	145	LL	31	108	142	09	18	51	44	06	44	69	30	£E .	<u> </u>	15	73	<i>ħL</i>	- 9£	132
TREE OF A	121	211	119	44	7	68	49	1	1	33	14	1	1	10	7	3	14	. 13	30	17	9	49
FREOTA	147	331	163	2	32	125	253	17	55	22	0	35	23	190	129	19	32	11	92	91	30	47
SIZE.	134	271	141	54	17	107	151	6	28	45	7	18	12	100	89	32	23	12	53	54	18	48
IRE	1,18	0,95	0,79	89'0	0,34	0,91	0,92	8,06	0,26	0,71	Ilm	0,22	0,23	1,66	1,47	2,08	69'0	1,59	69'0	1,81	0,47	1,43
BRJ RR2	0,85	1,05	1,27	1,48	2,96	1,1	1,09	0,12	3,84	1,4	0	4,58	4,4	9,0	99'0	0,48	1,45	0,63	1,46	0,55	2,11	7,0
COVITARISON	HELD_ALL_ADR	HBLD_FEM_EFF	HELD FEM_VEFF	HELD_FEM_UEFF	HELD_FEM_ADR3ULN	HELD_FEM_VEFF	HELD_FEM_VEFF	HELD_MAL_ADRSULN	HELD_FEM_CC	HELD_MAL_ADR	HELD_MAL_ADRSULN	HELD_ALL_ADRSULN	HELD_MAL_ADR3ULN	CVD_ALL	CVD_MAL	CVD_FEM	HELD_MAL_CC2	HELD FEM HDL	HELD FEM UEFF	HELD FEM UEFF	HELD_MAL_LIP	HELD_ALL_ADR3ULN
ALLELES	O	Ö	¥	A	A	A	D	Ð	O	υ	Ą	A	A	Ö	O	Ð	L	T	H	A	U	T
	¥	Ą	ტ	ტ	b	T	Ö	O	Ö	T	ပ	O	U	O	Ü	O	Ą	¥	ø	U	H	¥
BAXSNP "ALLELE1	2755	2755	2925	2925	3043	3152	3214	3215	3237	3241	3826	3826	3826	3842	3842	3842	3843	3843	3869	3942	4018	4206

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_	1	4	.)	

IREO2 B	55	103	28	194	2	22	46	. 45	46	21	21	59	59	21	21	59	121	72	27	18	15	78
WROL B	68	161	08	546	. 30	36	202	26	. 202	97	97	201	201	26	97	197	139	490	41	54	103	22
Side B	72	132	54	370	91	53	124	71	124	59	. 59	130	130	59	59	128	130	281	34	36	59	71
riceoz, A	72	28	28	132	7	19	28	46	16	14	37	83	31	14	37	83	18	86	01	14	m	68
FRECTA	72	24	114	208	17	71	89	162	36	70	87	183	83	70	85	181	34	474	79	70	15	113
X TXIS	72	26	17	320	12	45	48	104	26	17	62	133	47	17	61	132	26	286	18	17	6	101
RIC	1,27	1,65	0,85	0,84	2,15	7,0	1,5	0,81	1,71	2,34	1,35	1,23	1,44	2,34	1,37	1,22	99'0	1,17	7,0	1,62	1,31	0,83
RRE	0,79	0,61	1,18	1,19	0,47	1,43	29,0	1,24	0,59	0,43	0,74	0,82	69,0	0,43	0,73	0,82	1,52	0,85	1,44	0,62	0,76	1,2
COMPARISON THREE STREET A FRECT, A FREGT A SIZE B. FRECT, B. BREGT, B.	HBLD_FEM_ADR	HELD ALL ADRSULN	CVD_ALL	HELD_FEM_LIP2	HELD_MAL_CC	HELD_MAL_CC2	HELD_ALL_ADR3ULN	HELD_ALL_CC2	HELD_ALL_ADRSULN	HELD_MAL_ADR3ULN	HELD_MAL_ADR	HELD ALL ADR	HELD_ALL_ADR3ULN	HELD MAL ADRIULN	HELD_MAL_ADR	HELD_ALL_ADR	HELD_ALL_ADRSULN	HELD FEM BFF	HELD MAL LIP	HELD_MAL_LIP	HELD MAL ADRSULN	HELD_ALL_CC2
ALLELE	H	T	A	4	¥	4	¥	¥	A	Ą	Ą	Ą	¥	Ą	A	A	V	H	<	4	O	Ð
1.	Y X	4	O	0	O	Ø	Ð	0	Ö	Ð	Ð	O	O	0	O	O	O	U	0	0		¥ V
BAXSNP (ALLELE)	4206	4206	4527	4527	4527	4527	4527	4527	4527	4544	4544	4544	4544	4545	4545	4545	4668	4669	4718	4818	4827	4838

REQ2 B	3	56	26	13	23	28	111	19	19	111	61	111	111	09	09	111	34	65	16	25	70	24
WREOLA SIZE BIFREQUEBIFREQZE	65	26	92	23	53	34	145	. 77	77	145	- 22	145	145	08	80	145	34	53	26	43	54	20
alzie B	34	89	59	18	38	31	128	69	69	128	69	128	128	70	0/	128	34	59	21	34	79	22
FREQ2.	138	36	5	2	15	17	45	33	21	30	78	135	4	32	20	29	6	54	35.	39	78	6
RR2 SETE A FREGITAL	0	88	11	26	75	7	51	29	13	22	89	135	52	30	14	23	27	89	25	25	96	27
SLTE A	69	. 79	∞	41	45	12	48	31	17	26	73	135	48	31	17	56	18	19	30	32	87	18
AR2	Ilm	1,19	1,51	0,25	29,0	2,21	1,11	1,28	1,77	1,62	1,2	1,14	1,08	1,28	1,68	1,51	0,47	0,81	1,4	1,66	0,82	0,47
IRRE.	0	0,84	99'0	3,98	1,48	0,45	6,0	0,78	95,0	0,62	0,84	0,88	0,93	0,78	9,0	99'0	2,11	1,24	0,71	9'0	1,21	2,11
COMPARISON	CVD_MAL	HELD_MAL_ADR	HELD_MAL_ADRSULN	HELD_MAL_CC	HELD_ALL_CC	HELD_MAL_LIP	HELD_ALL_ADR3ULN	HELD_FEM_ADR3ULN	HELD FEM ADRSULN	HELD_ALL_ADRSULN	HELD_FEM_ADR	HELD_ALL_ADR	HELD_ALL_ADR3ULN	HELD_FEM_ADR3ULN	HELD_FEM_ADRSULN	HELD_ALL_ADRSULN	HBLD MAL LIP	HELD_MAL_ADR	HELD_FEM_CC	CVD_FEM	HBLD_ALL_CC2	HELD_MAL_HDL
ALLELEZ	Ą	O	O	A	Ą	A	A	A	Ą	Ą	A	A	υ	ان	O	O	A	A	A	T	Ţ	T
_	Ö	L	Ι.	U	U	O	O	Ð	O	O	O	O	T	Ł	H	H	O	Ø	Ö	A	A	¥
BAXSNE ALLELE	4856	4868	4868	4887	4887	4912	4951	4951	4951	4951	4951	4951	4952	4952	4952	4952	4966	4966	4966	5019	5019	5019

S.	وا		_		_					2									<u>.</u>			
FREG	116	31	18	15	18	18	27	34	4	122	48	82	20	83	0	43	43	4	142	24	32	74
TREOF B	\$	17	122	103	122	122	93	260	32	146	94.	180	90	173	116	85	85	106	0	44	74	170
SIZE	100	24	92	59	20	70	09	147	38	134	11	131	70	128	288	2	64	55	71	34	53	122
FREQ*4	77	31	14	3	26	∞	80	19	26	150	3	∞	3	6	1	32	4	2		65	-	7
PREDE	95	43	46	15	116	24	10	257	40	124	29	42	27	39	15	88	26	104	31	73	15	37
A TAIL	98	37	30	6	71	16	6	159	33	137	16	25	. 15	24	8	09	15	53	16	69	œ	22
WR.	0,75	7,0	1,6	1,31	1,21	1,87	2,35	1,29	29'0	1,2	0,25	0,47	0,25	0,53	8,73	0,84	95,0	29'0	10,0	1,17	0,18	0,48
tm.	1,33	1,43	6,63	92'0	0,82	0,53	0,42	0,77	1,5	0,83	4,01	2,13	4,08	1,88	0,11	1,19	2,75	1,49	143	0,85	5,56	2,07
COMPARISON 1. TORN PART SIZE A PRESENT FREQUEN SIZE BITEROT E LIREGE E	HELD_ALL_LIP	HELD_MAL_CC2	HELD_FEM_ADR3ULN	HELD_MAL_ADRSULN	HELD_FEM_ADR	HELD_FEM_ADRSULN	HELD_MAL_ADRSULN	HELD_FEM_VEFF	CVD_FEM	HELD_FEM_VEFF	HELD_FEM_ADRSULN	HELD_ALL_ADRSULN	HELD_FEM_ADRSULN	HELD_ALL_ADRSULN	HELD_MAL_ADRSULN	HELD_FEM_ADR	HELD_FEM_ADRSULN	HELD_MAL_ADR	HELD_FEM_ADRSULN	CVD_MAL	HBLD_MAL_ADRSULN	HELD_ALL_ADR5ULN
ALLELES	H	Т	¥	¥	Ą	Ą	A	£.	0	O	T	H	П	Т	T	ပ	Ö	ß	ပ	Т	4	Ą
BAKSNP ALTELE	¥.	Ą	Ü	Ö	U	ပ	O	Ö	4	T	හ	ტ	ပ	ပ	¥	T	H	4	Ð	Ð	Ð	Ð
TINK SIND	5019	5019	5165	5165	5165	5165	5278	5287	5320	5324	5373	5373	5375	5375.	5376	5377	5377	5517	5518	5564	5569	5569

7.20	:1	1	_			_	_	_														
FREQ2.B	92	53	. 26	53	122	16	6	28	33	63	20	43	20	20	55	64	75	37	9	15	7	10
ERECT B	126	65	126	65	142	22	21	30	83	193	112	205	112	112	.68	72	177	79	30	65	19	130
SIZE B	109	59	109	59	132	61	15	29	58	128	99	124	99	99	72	8	126	28	18	9	37	6
BREO2_A	54	40	28	20	32	22	14	38	40	81	11	13	39	18	50	4	42	19	28	7	15	27
ERECT A	34	18	16	10	20 .	12	14	78	76	177	21	33	105	42	54	82	52	15	0	83	55	167
V TZIS	44	29	22	15	26	17	47	28	28	129	16	23.	72	30	52	63	47	17	41	45	35	97
RRO	1,74	1,98	2,07	2,05	1,68	1,64	1,52	8,0	1,15	1,18	2,25	1,67	1,37	1,74	1,26	0,77	1,58	2,13	Illing	0,57	1,51	1,3
The state of	0,57	0,5	0,48	0,49	65'0.	0,61	99'0	1,25	0,87	0,85	0,44	9,0	0,73	95'0	62'0	1,31	6,63	0,47	0	1,76	99'0	0,77
COMPARISON THE REAL RECOLD IN THE OF A SIZE BEREOF BENEDA BEREOF BENEDA	HELD_ALL_ADR3ULN	HELD_FEM_ADR3ULN	HELD_ALL_ADRSULN	HELD_FEM_ADRSULN	HELD_ALL_ADRSULN	CVD_FEM	HELD_MAL_CC	CVD_MAL	HELD_MAL_ADR	HELD_ALL_ADR	HELD_FEM_ADRSULN	HBLD_ALL_ADRSULN	HELD_FEM_ADR	HELD_FEM_ADR3ULN	HELD FEM UEFF	HELD_FEM_LIP	HELD_ALL_ADR3ULN	HELD_MAL_ADR3ULN	HELD_MAL_CC	HELD_ALL_CC	CVD_FBM	CVD_ALL .
ALLELE2	ပ	C	U	ပ	Ą	Ą	₹	¥	¥	C	Ð	Ð	Ö	Ö	T	U	ບ.	Ö	U	U	U	၁
BAYSNP ALLELEI	Ð	· Đ	Ð .	Ð	Ð	ტ.	ტ	უ	Ü	Ŀ	H	T	T	T	υ	Т	T	Ŧ	Τ.	E	H	Т
BAYSNP	5716	5716	5716	5716	. 5717	5717	5850	5959	6151	6236	6277	6277	6277	6277	6313	6969	6374	. 6374	9689	96£9	6396.	6396

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FREQ2 B	14	21	21	95.	21	21	21 ·	95	4	4	12	4	12	12	0	85	71	41	71	41	41	31
TREA STATES HEREAL & PRINCE & SITE B. PRINCE B. BRIDGE B.	124	66	66	212	66	121	121	79	138	138	250	138	250	250	30	149	157	77	157	11	11	127
d azig	69	09	09	131	09	71	11	65	71	11	131	71	131	131	15	117	114	65	114	65	65	6/
Рицо г 🚣	32	5	6	15	28	13	33	œ	13	7	15	19	8	26	3	26	. 13	6	7	. 31	5	49
HICOL A	140	11	23	35	96	49	113	26	49	27	81	127	44	246	21	153	75	47	39	101	25	. 113
Vaizis	98	∞	16	25	62	31	73	17	31	17	48	23	26	136	12 .	125	4	78	23	99	15	81
CHA	1,31	1,92	1,59	1,63	1,16	1,33	1,27	0,42	2,92	3,89	2,27	1,72	2,67	1,38	2,43	1,05	0,48	0,47	0,45	92,0	0,44	1,3
True	92,0	0,52	69'0	0,61	98'0	0,75	6,79	2,36	0,34	0,26	0,44	95'0	0,37	0,72	0,41	950	2,09	2,11	2,22	1,32	2,25	0,77
COMPARISONS	HELD_ALL_CC2	HELD_MAL_ADRSULN	HELD_MAL_ADR3ULN	HELD_ALL_ADRSULN	HBLD_MAL_ADR	HELD_FEM_ADR3ULN	HELD_FEM_ADR	HELD_MAL_ADR3ULN	HELD_FEM_ADR3ULN	HELD FEM ADRSULN	HELD_ALL_ADR3ULN	HELD_FEM_ADR	HELD_ALL_ADRSULN	HELD_ALL_ADR	HELD_ALL_CC	HELD_ALL_ADR	HELD_ALL_ADR3ULN	HELD FEM ADR3ULN	HELD_ALL_ADRSULN	HELD_FEM_ADR	HELD FEM ADRSULN	HELD_FEM_LIP
VILELES	¥	4	4	¥	¥	¥	¥	D	T	T	T	T	T	T.	O	υ	L	H	Т	T	T	A
KYSWP KINDELEI AI	Ö	Ð	Ð	O	Ð	Ð	Ð	A	Ö	O	၁	Ü	၁	O	V	O	ŭ	Ü	O	U	ပ	Ö .
disk with	6486	6520	6520	6520	6520	6522	6522	6524.	9659	9659	9659	9659	9659	9659	6734	6743	7128	7128	7128	7128	7128	7363

EREQ. B	45	14	14	23	37	20	112	9	33	101	56	26	101	34	45	12	12	0	0	85	85	82	
ARREST RESTRICT A FREE OF A SIZE B FREE B RREST B	185	130	130	\$6	33	18	116	99	125	147	78	78	147	120	179	246	246	78	89	167	167	167	
SIZIE B	115	7.5	72	89	.35	. 19	114	36	79	124	29	<i>L</i> 9	124	11	112	129	129	39	34	126	126	126	
EREON A	57	10	14	0	10	12	9,	10	22	39	28	89	117	16	24.	10	9	9	6	4	113	25	
FREGILA	143	24	48	14	28	16	112	28	136	53	. 30	70	137	136	166	98	46	48	66	20	151	27	
SIZE A	100	17	31	7	19	14	98	19	79	46	29	89	127	9/	95	48	56	27	54	47	132	52	
RRC	1,28	2,67	1,85	0	0,46	8,0	0,82	2,1	0,77	1,05	1,2	1,16	1,11	9,0	0,72	1,75	2,12	2,63	1,69	1,48	1,2	1,63	
RIR	0,78	0,37	0,54	冒	2,16	1,25	1,22	0,48	1,3	56'0.	0,83	98,0	6,0	1,66	1,38	0,57	0,47	0,38	0,59	99'0	0,83	0,61	
COMPARISON	HELD_ALL_LIP	HELD_FEM_ADRSULN	HELD_FEM_ADR3ULN	HELD_MAL_ADRSULN	HELD_MAL_LIP	HELD_MAL_CC	HELD_ALL_LIP	HELD_MAL_LIP	HELD_FEM_LIP	HELD_ALL_ADR3ULN	HELD_FEM_ADR3ULN	HELD_FEM_ADR	HELD ALL ADR	HELD_FEM_LIP	HELD ALL LIP	HELD ALL ADR3ULN	HELD_ALL_ADRSULN	CVD_FBM	CVD_MAL	HELD ALL ADR3ULN	HELD ALL ADR	HELD_ALL_ADRSULN	
ALLELES	¥.	0	O	Ð	O	O	O	¥	A	Ą	A.	¥	A	O	G	H	T	O	O	O	O	O	
	_	¥	V	4	H	H	H	U	C)	0	O	9	ß	¥ .	4	2) D	O	C) [-	L	T	
SAVSNP SALITETE	7363	7409	7409	7409	8138	8138	8138	8168	8168	8210	8210	8210	8210	8241	8241	8740	8249	8480	8480	8577	8577	8577	

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SIGNE AND A TREOZ A SIGN. B TREOL B PRESSE	91	23	23	23	41	321	27	62	19.	40	13	14	25	63	29	35	11	5	. 12	36	23	34
FREQL B	169	81	- 81	81	187	419	17	78	111	44	21	20	85	223	91	113	109	23	20	222	131	256
SIZE B	130	52	52	52	114	370	77	0/	59	42	17	42	55	143	99	74	09	14	31	129	11	145
TREO2_X	45	7	-	0	80	227	12	59	46	33	14	3	2	48	2	18	4	0	5	77	7	19
FREOI A	51	87	27	14	74	403	24	121	138	71	22	43	30	230	16	96	12	24	71	74	103	283
SIME	48	.47	14	7	41	315	18	8	92	52	18	23	16.	139	6	22	∞	12	38	48	55	151
	1,43	0,45	0,17	0	95'0	0,84	0,53	8,0	1,28	0,73	1,01	0,46	0,28	0,85	0,43	0,77	2,69	0	0,5	1,52	0,53	99'0
Total I	0,7	2,22	9	ם	1,74	1,18	1,9	1,25	0,78	1,37	660	2,16	3,52	1,17	2,32	1,31	0,37	IIII	2	99'0	1,89	1,46
COMPARISON THE REAL WHILE	HELD ALL ADRIVEN	HELD_MAL_ADR	HELD_MAL_ADR3ULN	HELD_MAL_ADRSULN	HELD_ALL_ADR3ULN	HELD_FEM_LIP2	HELD_FEM_HDL	HELD_ALL_CC2	CVD_ALL	HELD FEM CC2	HELD_MAL_HDL	HELD FEM ADRIULN	HELD MAL ADRIVEN	HELD FEM VEFF	HELD MAL ADRSULN	HELD FEM URFF	HELD_MAL_ADRSULN	HELD MAL CC	HELD ALL CC	HELD ALL ADRIULN	HELD FEM UEFF	HELD_FEM_VEFF
ALLELE2	¥	T	T	T	L	υ	Ü	U	υ	Ü	D	L	O	Ð	Ð	Ð	A	T	T	Ü	Ö	O
BAYSINP ATERLE! ALLE	О	O	O	O	Ü	0	0	O	O	O	Ø	O	A	U) 0	O	O	O) [) &	. 6	Ð
HAYSIND	8278	8653	8653	8653	8653	8816	8816	8816	8816	8816	8816	8931	8943	.0743	9243	9243	9523	0940	0040	10001	10541	10541

22.5				_							\neg		\neg	—	\neg				- 			
FREOZ B	. 4	9	4	23	13	54	. 11	160	24	708	130	348	45	43	87	95	195	27 ·	19	13	73	201
FREOI B	64	88	42	47	47	100	55	440	124	742	86	346	33	29	69	161	369	6	173	64 İ	179	495
SIZE B	34 ·	47	23	35	30	11	33	300	74	725	114	347	39	36	78	143	282	18	117	126	126	348
FREOZ A	134	78	38	9	11	38	10	104	51	551	85	271	26	14	71	117	219	34	19	70	∞	143
RRICHARD SIZE A TRUBCE A SIZE B TREOL B	.0	0	0	32	15	124	128	382	. 155	723	113	357	44	24	68	163	319	2	75	74	42	483
W UZIS	29	39	19	19	13	81	69	243	103	637	86	314	35	19	8	140	269	18	47	47	25	313
RRZ	Im	THE	7	0,51	1,89	0,75	89,0	0,85	1,22	68'0	0,74	98,0	0,64	0,54	8,0	1,2	1,14	3,07	0,79	0,74	0,52	0,84
RR.	0	0	0	1,96	0,53	1,34	1,47	1,18	0,82	1,13	1,35	1,16	1,56	1,84	1,25	0,83	88,0	0,33	1,27	1,36	1,92	1,19
COMPARISON	CVD_MAL	HELD_ALL_HDL	HELD MAL HDL	HELD_MAL_LIP	HELD_MAL_LIP	HELD_FEM_LIP	CVD_MAL	HELD_FEM_LIP2	CVD_ALL	HBLD_ALL_LP2	HELD_ALL_LIP	HELD_MAL_LIP2	CVD_FEM .	HELD_MAL_LIP	HELD FEM LIP	HBLD FEM VEFF	HELD_FEM_EFF	CVD_FEM	HELD_ALL_ADR3ULN	HELD_ALL_ADR3ULN	HELD_ALL_ADRSULN	HELD_MAL_LIP2
ALLELE?	A	¥	4	Ą	O	Ð	Ü	Ð	Ð	A	A	A	A	A	A	υ	O	Ð	O	O	O	ပ
<u> </u>	9	Ð	0	O	Т	O	Н	A	Ą	Ð	О	O	0	O	O	O	O	A	A	H	I	T
BAYSNP ALLELE	10600	10600	10600	10745	10748	10749	10785	10811	10811	10830	10830	10830	10830	10830	10830	10949	10949	10962	10962	10966	10966	11000

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FREQ. B	18	33	381	33	195	374	19	33	65	40	49	36	39	39	41	74	145	5	8	126	279	17
REOLE	62	87	1069	87	471	1044	19	87	165	92	107	100	101	101	95	176	137	45	64	295	1157	95 .
SPE B	40	09	725	8	333	402	40	09	115	. 58	82	89	. 02	02	89	125	141	. 52	36	344	718	95
FRB02.7	16	16	287	6	142	280	16	16	41	5	89	78	12	21	6	57	122	17	13	146	294	25
direct.	54	18	973	6	476	096	52	18	163	25	8	134	20	37	51	205	154	21	25	. 478	362	59
V TAIS	. 35	17	630	6	309	620	34	17	102	15	62	106	16	29	30	131	138	19	13	312	628	42
	1,01	1,9	6,0	2,29	0,84	68'0	66,0	1,9	0,78	0,45	1,27	1,19	1,42	1,31	0,52	0,81	98'0	2,43	2,2	1,17	1,13	1,55
	66'0	0,53	1,11	0,44	1,19	1,12	1,01	0,53	1,28	2,23	0,79	0,84	0,7	0,77	1,94	1,24	1,16	0,41	0,45	98'0	88'0	20,0
COMPARISON WALRENDERS AND TREED A FREED THE BEST OF THE BEST OF THE BEST TH	CVD_FEM	HELD_MAL_ADR3ULN	HELD_ALL_LIP2	HELD_MAL_ADRSULN	HELD_MAL_LIP2	HELD_ALL_LIP2	CVD_FEM	HELD_MAL_ADR3ULN	HELD_ALL_LIP	HBLD_MAL_ADR3ULN	HELD_FEM_LIP	HELD_ALL_CC2	HELD_FEM_ADRSULN	HELD_FBM_ADR3ULN	HELD_FEM_ADR3ULN	HELD_ALL_ADR	HELD_FEM_VEFF	HELD_MAL_HDL	HRID_MAL_LIP	HELD_MAL_LIP2	HELD_ALL_LIP2	HELD_ALL_HDL
ALLELE?	ပ	၁	O	O	O	U	ပ	O	ပ	H	Ö	O	Ą	4	T	T	T	V	A	Ą	A	4
ALLEIEI	I.	H	T	H	H	H	T	H	T	D	Ð	0	H	L	D	Ü	Ð	Ð	O	Ð	Ð.	9
BAKEN ALTELEI ALL	11000	11000	11000	11000	11001	11001	11001	11001	11001	11020	11073	11073	11192	11192	11248	11248	11410	11448	11448	11448	11448	11448

THE DESIGNEY PRECES FREEZE A STEELE TRACOL TO THE COLD	22	41	14	11	. 1	47	115	5	5	5	3	17	19	86	205	15	19	20	10	14	15	20
PREOF B	114	207	99	61	62	653	1355	133	133	133	41	£9	101	296	1239	99	17	234 ·	106	30	43	09
SIZE B	. 89	124	40	36	40	350	735	69	69	69	22	40	09 .	. 347	722	40	18	127	28	22	53	40
FREOL A	39	64	26	17	6	89	128	4	9	11	15	70	33	124	230	6	9	1	9	10	12	16
FREOL'A	66	190	62	21	59	566	1142	30	56	135	47	99	93	502	1036	81	. 22	91	119	52	.84	. 74
SIZE A	69	127	4	19	34	317	635	17	31	73	31	43	83	313	633	45	14	46	61	31	48	45 ·
and the	1,38	1,27	1,34	2,37	2,11	1,27	1,15	2,41	1,84	1,36	1,56	1,06	1,32	1,22	1,16	89'0	0,43	0,17	0,44	99'0	29,0	8,0
	0,73	0,79	0,75	0,42	0,48	0,79	0,87	0,41	0,54	0,73	0,64	36,0	92,0	0,82	98'0	1,48	2,35	5,88	2,29	1,52	1,49	1,24
COMPARISON	HELD_FEM_ADR	HELD_ALL_ADR	HELD_ALL_CC	HELD_MAL_LIP	CVD_FEM	HELD_MAL_LIP2	HELD_ALL_LIP2	HELD FEM ADRSULN	HELD_FEM_ADR3ULN	HELD_FEM_ADR	HELD_FEM_CC	HELD_ALL_CC	HELD_MAL_ADR	HELD_MAL_LIP2	HELD_ALL_LIP2	HELD_ALL_CC	HELD_MAL_CC	HELD_ALL_ADR3ULN	HELD_MAL_ADR	HELD FEM CC	HELD_MAL_CC2	HBLD_ALL_CC
ALLELE2	A	A	¥	A	9	T	T	O	O	O	Ą	O	O	O	U	U	T	O	O	O	O	O
	Ü	Ö	O	L	Æ	D	O	T	T	T	Ð	υ	A	A	A	Ą	Ð	T	T	Ţ	Ţ	T
EBANSINF ALLELEI	11448	11448	11448	11450	11456	11462	11462	11483	11483	11483	11531	11536	11537	11558	11558	11558	11585	11594	11594	11614	11614	11614

PREOZ.B	19	31	31	37	27	23	44	55	9	56	78 .	30	38	24	24	38	14	51	49	101	101	19
REOT B	66	87	87	121	171	45	104	59	38	102	152	40	170	89	89	170	102	205	63	163	163	83
SIZE B	59	59	59	62	114	34	74	22	22	62	115	35	104	46	46	104	58	128	. 95	132	132	72
TRHOS. A STATE & PRESOT B	14	10	15	53	69	27	41	46	2	40	20	91	40	76	16	4	24	4	20	32	19	24
RRS SIZE A PREGLA	9/	8	19	101	123	. 111	169	74	09	122	150	22	0	0	0	70	0	44	10	2	33 .	38
SPEAN.	45	6	17	11	96	69	105	8	31	81	100	13	20	13	∞	37	12	24	15	84	26	31
RR2	86'0	2,9	1,82	1,29	1,31	92,0	0,78	0,82	0,41	0,77	0,79	860	ם	IIII	Im	0,33	THE	0,41	2,12	0,85	0,94	6,0
	1,02	0,35	0,55	0,77	92'0	1,32	1,28	1,22	2,45	1,31	1,27	1,02	0	0	0	3,06	0.	2,43	0,47	1,17	1,06	11.1
COMPARISON	HELD_ALL_EDL	HELD_MAL_ADRSULN	HELD_MAL_ADR3ULN	HELD FEM LIP	HELD_ALL_LIP	CVD_MAL	CVD_ALL	HELD_MAL_ADR	HELD_FEM_CC	HBLD_FEM_LIP	HELD_ALL_LIP	HELD_MAL_LIP	HELD_ALL_ADRSULN	HBLD_MAL_ADR3ULN	HBLD_MAL_ADRSULN	HELD_ALL_ADR3ULN	HBLD_FBM_ADRSULN	HELD_ALL_ADRSULN	HELD_MAL_ADR3ULN	HELD_ALL_ADR3ULN	HELD_ALL_ADRSULN	HELD_FEM_ADR3ULN
ALLELE2	S	₹ .	Ą	ပ	O	U	U	U	¥	Н	T	T	¥	4	4	¥	A	ပ	T	O	O	U
BAYSNP ALLELET	T	Ð	Ö	¥	Ą	Ą	Ą	Ð	O.	υ	D	D O	ß	5	O	Ð	9	T	¥	T	П	Ŀ
BAYSNP	11614	11631	11631	11637	11637	11637	11637	11641	11645	11646	11646	11652	11727	11727	11727	11727	11727	11728	11914	11938 .	11938	11938

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FRE02	32	32	32	.32	25	11	108	61	108	61	108	61	9	9	4	18	27	27	27	32	32	32
FREQUE REFOLE	.78	78	78	84	127	215	144	79	144	79	144	49	136	134	242	797	83	83	£83	. 84	84	84
	55	55	\$\$	28	9/	113	126	70	126	20	126	0/	11	10	128	140	55	25	22	28	58	58
nego, w size, b	91	3	26	14	28	4	43	21	30	31	133	9/	14	16	28	. 29	6	44	14	9	4	11
RRY RRE SIZE AFFREGILA	0	27	84	0	82	234	. 51	13	22	29	133	89	88	130	240	243	7	99	18	12	74	23
SIGNA	∞	÷ ;	55	7	55	119	47	17	79	30	133	72	51	73	134	136	∞	55	16	6	59	17
RRS	Ilm	0,33	98,0	Tigg Tigg	1,35	0,51	1,09	1,81	1,64	1,25	1,15	1,2	1,78	1,48	1,34	1,28	3,21	1,4	1,92	1,26	1,24	1,19
RRU	0	m.	1,16	0.	0,74	1,95	0,92	0,55	19,0	8,0	0,87	0,83	95'0	89'0	0,75	0,78	0,31	0,71	0,52	0,79	0,81	0,84
COMPARISON	HELD_MAL_ADRSULN	HELD_MAL_ADR3ULN	HELD_MAL_ADR	HBLD_MAL_ADRSULN	HELD_FEM_URFF	HELD_ALL_ADR	HELD_ALL_ADR3ULN	HELD_FEM_ADRSULN	HELD_ALL_ADRSULN	HELD FEM ADR3ULN	HELD_ALL_ADR	HELD_FEM_ADR	HELD FEM UEFF	HELD_FEM_ADR	HELD_ALL_ADR	HELD FEM VEFF	HELD MAL ADRSULN	HELD_MAL_ADR	HELD_MAL_ADR3ULN	HELD_MAL_ADRSULN	HELD_MAL_ADR	HELD_MAL_ADR3ULN
ALLELES	A	Ą	Ą	A	4	T	ß	Ð	G	Ð	ß	ß	O	O	O	υ	Ą	A	A	ß	Ð	G
	U	ß	O	Ð	Ð	Ö	Ą	Ą	A	Ą	Ą	Ą	Ţ	T	Ţ	Ţ	0	. 0	O	A	Ą	∢
BAXSNP ALLELET	11950	11950	11950	11951	11951	12008	12031	12031	12031	12031	12031	12031	12032	12032	12032	12032	12148	12148	12148	12207	. 12207	12207

TREE OF WHITTER A SIZE WITH BOLD PRECED	14	14	30 .	11	45	27	32	36	47	20	21	21	46	2,1	22	22	48	50	100	53	14	7
TREEOF B	106	. 106	232	66	243	115	88	08	66	85	26	26	212	26	94	94	212	76	178	47	26	7.7
	09	90	131	55	144	71	09	28	20	39	65	65	129	65	85	85.	130	1.1	139	20	35	17
EREO2 A	5	6 0	47	26	89	12	30	10	15	36	6	4	17	24	6	4	17	35	109	58	5	21
A TOTAL	11	24	217	86	234	22	94	24	19	50	25	14	11	86	23	12	11	75	187	42	57	21
Y MEZIS TO A	8	16	132	62	151	17.	62	17	17	43	17	6	47	19	16	∞	47	. 55	148	20	31	21
70.0	2,8	1,97	1,26	1,41	1,23	1,92	0,94	0,94	1,43	1,39	1,46	1,27	1,01	1,06	1,48	1,36	96'0	0,92	1,02	1,11	0,52	1,71
	95,0	0,51	0,79	0,71	0,82	0,52	1,07	1,06	0,7	0,72	89'0	0,79	66,0	96,0	9,0	0,74	1,02	1,09	86,0	60	1,92	95'0
CONTRACTOR	HELD_MAL_ADRSULN	HELD_MAL_ADR3ULN	HELD_ALL_ADR	HELD_MAL_ADR	HELD_FEM_VEFF	HELD_FEM_ADRSULN	HELD_MAL_ADR	HELD_MAL_ADR3ULN	HELD_FEM_ADRSULN	HELD_ALL_CC	HELD_MAL_ADR3ULN	HELD_MAL_ADRSULN	HELD_ALL_ADR3ULN	HELD_MAL_ADR	HELD_MAL_ADR3ULN	HELD_MAL_ADRSULN	HELD ALL ADRIULN	HELD_FEM_UEFF	HELD_FEM_VEFF	HELD_MAL_ADR	CVD_FRM	HELD_FEM_VEFF
ALLELES	Ð	Ð	Ð	H	H	O	Ö	O	O	A	O	Ü	υ	O	Ą	Ą	A	A	V	Ą	V	V
HAWSIND ADDRESS	Ą	Α.	V	¥	¥	T	T	Ą	Ą	0	T	T	T	T	Ð	Ð	Ð	9	0	ø	Ð	O
HAVENP	12399	12399	12399	12554	12554	12851	12851	13025	13025	13191	13192	13192	13192	13192	13193	13193	13193	13338	13338	13339	13339	13340

FREQ2_B	17.	26	26	14	41	28	56	70	40	222	64	34	17	81	. 38	121	74	74	39	39	. 70	42
FREQ1 B	113	112	112	94	501	112	404	496	72	340	482	927	121	151	7.7	. 449	154	154	<i>5Ŀ</i>	7.5	156	76
SIZE B	65	69	69	54	271	70	230	283	95	281	273	135	69	116	25	285	114	114	57	23	113	59
FREOZ A	23	18	38	16	61	15	75	84	9	181	83	40	22	41	14	06	14	32	11	23	103	99
BREQL A	73	36	06	0	473	123	405	452	12	361	445	234	84	53	18	454	34	58	21	35	133	89
V mis	48	27	64	∞	267	69	240	268	6	271	264	137	53	47	16	272	24	45	16	29	118	29
BRZ	1,47	1,68	1,33	Ilua	1,23	29'0	1,14	1,14	0,91	0,87	1,18	1,09	1,38	1,29	1,35	0,85	98'0	1,1	1,01	1,17	1,29	1,29
RR	89'0	65'0	0,75	0	0,81	1,5	0,87	0,87	1,1	1,15	0,85	0,92	0,73	77,0	0,74	1,18	1,14	0,91	66'0	98'0	0,77	0,77
COMPARISON CHREE RRZ SIZD A TREQT X TREOZ A SIZE B TREGI B TREOZ B	HELD FEM UEFF	HELD_FEM_ADR3ULN	HELD_FEM_ADR	HELD_MAL_ADRSULN	HELD_FEM_EFF	HELD_FEM_ADR	HBLD_FEM_EFF	HELD_FEM_EFF	HELD_MAL_ADRSULN	HELD_FEM_EFF	HELD FEM EFF	HELD FEM VEFF	HELD_FEM_UEFF	HELD_ALL_ADR3ULN	HELD_MAL_ADR3ULN	HELD_FEM_EFF	HELD_ALL_ADRSULN	HELD_ALL_ADR3ULN	HELD_FEM_ADRSULN	HELD FEM ADR3ULN	HELD_ALL_ADR	HELD_FEM_ADR
ALLELEZ	Ą	O	U	Ą	Т	O	O	ပ	T	L	F	T	T	O	O	O	H	Т	H	T	T	Ţ
	O	T	F	O	U	L	Ħ	T	O	O	O	ပ	O	V	A	A	O	O	O	O	O	O
BAYSNP ALLELE	13479	13633	13633	13929	14065	14083	14085	14087	14102	14102	14103	14103	14103	14129	14129	14326	14503	14503	14503	14503	14537	14537

EREO2 B	30	54	54	2	7	6	10	71	39	13	40	73	40	13	6	4	0 .	7	52	12	19	52
THE REST STATE A PHROLA PRESS. A STATE BUREOF B REESS B	08	158	158	34	" £ <i>L</i>	65	104	157	1.1	133	86	185	· 86	43	27	16	120	55	208	82	153	09
SIZEB	55	106	106	18	40	34	57	114	58	73	69	129	69	28	18	10	09	31	280	47	98	99
FREDS A	31	05	10	4	15	. 11	0	105	62	70	15	. 20	7.7	5	1	4	1	15	38	9	80	19
A TOWN	56	172	99 .	20	71	27	30	139	70	98	19	32	35	101	33	89	17	66	526	12	26	13
SIZE	63	111	38	12	43	61	15	122	99	53	17	26	31	53.	17	36	6	2.	282	6	17	16
RRS	0,94	0,92	0,53	1,8	1,38	1,75	0	1,27	1,29	1,54	1,68	1,46	1,53	0,4	0,18	0,62	8,06	1,06	0,83	2,61	2,04	1,5
	1,07	1,08	1,89	95,0	0,72	0,57	Im	62,0	0,78	9,65	9,0	69'0	9,65	2,53	5,5	1,62	0,12.	9,0	1,2	95,0	0,49	0,67
COMPARISON	HELD_FEM_ADR	HELD_ALL_ADR	HELD_ALL_ADR3ULN	HBLD_MAL_CC	HELD_ALL_CC	HELD_MAL_LIP	HELD_MAL_ADR3ULN	HBLD_ALL_ADR	HELD_FEM_ADR	HBLD_FEM_UEFF	HELD_FEM_ADRSULN	HELD_ALL_ADRSULN	HELD_FEM_ADR3ULN	CVD_ALL	CVD_FEM	CVD_MAL	HELD_MAL_ADRSULN	CVD_ALL	HELD FEM EFF	HELD_FEM_ADRSULN	HELD_ALL_ADRSULN	HELD_MAL_ADR3ULN
ALLELE2	υ·	O	ပ	4	¥	Ą	D	¥	A	Ħ	O	Ð	D	V	4	¥	Ţ	4	Ą	4	Ą	υ
	Ţ	Т.	T	Ð	Ð	Ö	ပ	ပ	Ö	O	L	H	T	T	L	Т	O	O	O	Ð	O	Т
BAYSNP ALLELEI	15915	15915	15915	19289	19289	19289	36958	37158	37158	37160	37412	37412	37412	37457	37457	37457	37704	38959	38959	39292	39292	39698

02_B	37	36	29	31	31	96	28	51	36	58	53	22	27	. 15	12	14	99	91	48	43	36	36
IFRE	(7)	(")		."	(1)	<u> </u>		,,	(L)	, ,		2	2	1	1	1	6	6	4	4	3	3
TRECT	51	72	159	87	87	436	011	219	82	54	85	254	147	7.1	9/	86	139	179	89	93	8.	28
SIZEB	44	54	113	53	53	566	જ	135	29	56	69	138	87	43	44	95	611	135	28	89	22	57
FREG A	6	26	73	47	13	63	11	34	10	45	89	11	0	0	0	16	49	120	7	46	55	27
FREGIA	29	.8/	191	83	15	469	93	244	∞	75	62	297	30	14	16	0	66	152	25	58	63	27
Size	19.	52	117	99	14	266	22	139	6	09	65	154	15	7	∞	8	4	136	16	52	59	27
RR	0,54	0,81	1,04	1,23	2,01	92,0	0,62	92'0	2,45	0,75	1,33	0,62	0	0	0	Ilua	1,51	1,24	0,47	1,35	1,35	1,67
TOTAL	1,85	1,24	96'0	0,81	5,0	1,31	1,62	1,32	0,41	1,33	0,75	1,62	Iluu	Ilma	Ilun	0	99'0	0,81	2,11	0,74	0,74	9'0
COMPARISON - TRRESTRIC SIZE ALFREGIA PREGLA SIZE BETREOLD FREGATE	HELD_FEM_ADR3ULN	HELD_MAL_ADR	HELD_ALL_ADR	HELD_FEM_ADR	HELD_FEM_ADRSULN	HELD_FEM_EFF	HELD_FEM_UEFF	HELD_FEM_VEFF	HELD_MAL_ADRSULN	HELD_MAL_ADR	HELD_FEM_ADR	HELD_FEM_VEFF	HELD_ALL_ADRSULN	HELD_MAL_ADRSULN	HELD_FEM_ADRSULN	HELD_MAL_ADRSULN	HELD_ALL_ADR3ULN	HELD_FEM_VEFF	HELD_MAL_ADR3ULN	HELD_FEM_UEFF	HELD_FEM_ADR	HELD_FEM_ADR3ULN
STETES	၁	၁	S	C	၁	T	Т	T	Ð	ပ	Ą	Ħ	b	Ð	ß	ပ	ပ	Ą	Ą	Ą	T	T
BAYSNP ALLELEI	T	H	Т	· L	H	O	Ð	Ð	Ą	H	ပ	O	Ą	Ą	Ą	ı	Ļ	U	O	U	U	ပ
BAYSNP	39756	39951	39951	39951	39951	40466	40466	40466	44442	55504	55542	55670	55736	55736	55736	55748	55813	55845	55845	55845	55923	55923

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FRECE	38	38	18	35	35	12	46	95	95	48	48	53	53	53	21	21	21	226	41	49	42	42
REOLE	92	. 26	163	63	63	228	106	133	133	89	89	65	65	65	89	89	89	304	71	85	58	58
SIZE B	\$9 .	59	122	49	49	120	9/	114	114	28	58	65	65	65	25	55	55	265	99	19	20	20
FREOZ A	62	27	106	∞	4	0	20	28	43	21	32	89	26	17	26	16	80	186	9	31	33	73
REC. SIZE WINKEOT A FREED A SIZE B TREOLES FREOLES	70	29	142	26	14	48	62	20	47	13	28	72	36	19	0	0	8	342	28	29	19	51
SIZE A	99	78	124	17.	6	24	56	24	45	17	æ	70	31	81	13	∞	51	264	17	30	56	62
	1,43	1,73	1,22	9,64	95'0	0	1,41	1,74	1,19	1,9	1,37	1,07	0,92	1,07	Till	THE	0,54	0,85	0,45	1,52	1,78	1,36
in the	0,7	85,0	0,82	1,57	1,77	IIIII	0,71	0,57	0,84	0,53	0,73	94	1,08	0,93	0	0	1,86	1,17	2,22	99,0	95,0	0,74
COMPARISON SERVING	HELD FEM ADR	HELD_FEM_ADR3ULN	HELD_ALL_ADR	HELD_MAL_ADR3ULN	HELD_MAL_ADRSULN	HELD_ALL_ADRSULN	HELD_FEM_URFF	HELD_ALL_ADRSULN	HELD_ALL_ADR3ULN	HELD_FEM_ADRSULN	HELD_FEM_ADR3ULN	HELD_FEM_ADR	HELD FEM ADR3ULN	HELD_FEM_ADRSULN	HELD_MAL_ADR3ULN	HELD_MAL_ADRSULN	HELD_MAL_ADR	HELD_FEM_EFF	HELD_MAL_ADR3ULN	HELD_FEM_ADR3ULN	HELD_FEM_ADR3ULN	HELD_FEM_ADR
ALLELEZ	Ą	Ą	Ą	O	O	O	¥	T	L	T	T	O	Ü	O	4	A	¥	O	U	Ü	¥	A
_	Ð	9	0	H	T	¥	O	9	Ð	Ð	Ф	T	T	T	O	O	0	Ţ	L	T	O	Ð
HAKSNP ALLELEI	55945	55945	55945	26007	20095	56011	56104	56113	56113	56113	56113	56636	56636	56636	99995	26666	99995	29995	29995	26667	56780	56780

EQ2_B	83	83.	25	. 89	38	91	80	46	21	∞	48	18	23	105	32	56	104	32	28.	48	55	110
N. IR							,						_									_
THEOLE PREOLE	105	105	123	.480	248	157	506	104	43	18	104	116	83	425	104	214	420	104	98	09	22	180
SIZE B	94	94	74	274 ·	143	124	143	75	32	13	9/	<i>L</i> 9	53	265	89	135	797	89	25	54	95	145
FREO2_A	44	114	8	46	23	10	94	32	23	14	45	15	7	73	13	40	83	14	8	49	24	111
FREO, A RREO? A SIZE B	28	96	106	524	285	42	206	76	91	64	\$9	45	28	457	91	238	451	90	29	48	10	195
SIZE A	3 <u>é</u>	105	57	285	154	56	150	54	57	39	55	30	15	265	52	139	267	52	16	26	17	153
2	1,65	1,21	0,52	0,77	0,71	0,47	1,08	76,0	0,77	0,82	1,26	1,63	0,32	0,79	0,62	0,79	98'0	99'0	95,0	1,29	2,04	0,97
2	19'0	0,83	1,91	1,29	1,42	2,13	6,93	1,03	1,3	1,23	0,79	19'0	3,15	1,26	1,62	1,26	1,17	1,52	2,61	0,78	0,49	1,04
COMPARISON	HELD_ALL_ADR3ULN	HELD_ALL_ADR	HELD_FEM_UEFF	HELD_FEM_EFF	HELD_FEM_VEFF	HELD_ALL_ADRSULN	HELD_FEM_VEFF	HELD_FEM_UEFF	CVD_ALL	CVD_MAL	HELD FEM UEFF	HELD FEM ADR3ULN	HELD_MAL_ADR3ULN	HELD FEM EFF	HELD_FEM_UEFF	HELD_FEM_VEFF	HELD_FEM_EFF	HELD FEM URFF	HELD_MAL_ADR3ULN	HELD_MAL_ADR	HELD_MAL_ADR3ULN	HELD_FEM_VEFF
ALLELEZ	4	A	υ	O	Ö	Ð	L	H	Ŀ	T	O	O	Ð	U	O	၁	¥	A	Ą	Ð	O	H
BAYSNP ALLELEI AL	O	O	T	T	ī	A	A	4	Ą	A	L	O	Ą	T	H	Ŀ	O	. છ	Ö	Ą	H	o .
BAYSNP	56780	26780	56876	92895	92895	56978	27000	27000	27000	27000	57313	57734	57837	57853	57853	57853	57854	57854	57854	58295	: 58402	. 58407

FFEQ2-B	61	17	4	4	4	16	16	16	9	9	9	20	23	42.	42	218	48	22	41	22	34	70
HE CONSTRUCTION OF THE PROPERTY BY	91	. 127	128	128	128	228	228	228	136	136	136	238	82	92	92	344	74	96	215	96	116	7,7
SIZE B	76	72	99	99	99	122	122	122	71	71	71	129	54	29	29	281	61	59	128	29	75	72
REOZ A	36	23	22	11	9	36	8	14	20	8	4	33	12	2	2	183	96	18	22	6	14	42
WREEL SIZE A BRECLA	9/	81	110	49	26	212	42.	80	114	46	24	217	0	30	14	395	100	0	70	23	\$	20
A TOTAL	26	. 25	99	30	16	124	25	47	29	27	41	125	9	16	80	289	89	6	46	16	¥	31
	0,82	1,48	1,83	2,65	3,55	1,44	2,14	1,8	1,69	2,26	2,67	1,31	THE STATE OF	0,16	0,29	0,85	0,75	H	1,42	1,5	0,65	1,76
	1,23	89,0	0,55	92,0	0,28	0,7	0,47	95,0	65,0	0,44	0,38	0,77	0	6,23	3,42	1,17	1,34	0	0,7	79,0	1,53	0,57
COMPARISON	HELD FEM UEFF	HELD_FEM_UEFF	HELD_FEM_ADR	HELD_FEM_ADR3ULN	HELD_FEM_ADRSULN	HBLD_ALL_ADR	HELD_ALL_ADRSULN	HELD_ALL_ADR3ULN	HELD_FEM_ADR	HELD_FEM_ADR3ULN	HELD_FEM_ADRSULN	HELD_ALL_ADR	HELD MAL ADRSULN	HELD MAL ADR3ULN	HELD MAL ADRSULN	HELD FEM EFF	HELD_FEM_ADR	HELD MAL ADRSULN	HELD ALL ADR3ULN	HELD MAL ADR3ULN	HELD_FEM_UBFF	HELD_FEM_ADR3ULN
ALLELE?	F	O	Ŧ	T	F	T	T	Ţ	T	L	T	T	A	O	O	H	Ð	¥	¥.	4	A	Ð
	О	·H	O	O	O	U	O	O	O	U	O	O	O	· E	· E	· O	A	Ü	C) [U	4
KRANSKIP ATLEIK	58407	58440	58525	58525	58525	58525	58525	58525	58533	58533	58533	58533	58544	58716	58716	58736	58808	58809	58800	58809	58809	58886

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FREO2_B	122	122	33	82	17	33	89	29	89	39	72	46	46	70	70	43	100	201	40	38	86	26
FRECT B	. 142	142	75	144	21	75	168	81	168	48	188	64	64	122	122	. 65	138	285	96	<i>1</i> 4	164	30
SIZE B	132	132	54	113	19	54	118	55	118	63	130	55	22	96	96	15	119	243	89	99	125	28
FREOZ A SIZE B FREOT B	28	32	18	25	15	6	23	14	35	15	24	14	22	87	29	25	102	190	48	43	85	36
	38	. 20	12	19	21	7	21	12	47	13	28	2	10	103	39	47	140	290	52	73	167	84
SIZE A	48	5 6	15	22	18	∞	22	13	41	14	26	8	16	95	34	52	.121	240	20	58	126	09
REG	1,53	1,68	2,56	2	96,0	2,51	2,27	2,52	1,55	2,14	1,93	7,7	2,39	1,21	1,21	1,29	-	96'0	1,55	1,07	66'0	0,79
100	99'0	0,59	0,39	2,0	1,07	4,0	0,44	9,0	0,64	0,47	0,52	0,13	0,42	0,83	0,83	0,78	-	2,1	0,64	0,94	10,1	1,27
COMPARISON A BEC RES SIZE A TREOL W	HELD_ALL_ADR3ULN	HBLD_ALL_ADRSULN	HELD_MAL_ADR3ULN	HELD_ALL_ADRSULN	CVD_FEM	HELD_MAL_ADRSULN	HELD_ALL_ADRSULN	HELD_MAL_ADR3ULN	HELD_ALL_ADR3ULN	HELD_FEM_ADRSULN	HELD_ALL_ADRSULN	HELD_MAL_ADRSULN	HELD_MAL_ADR3ULN	HELD_ALL_ADR	HELD_ALL_ADR3ULN	HELD_FEM_ADR	HELD FEM VEFF	HELD FEM EFF	HELD FEM UEFF	HELD_MAL_ADR	HELD_ALL_ADR	CVD_MAL
ALLEI E2	O	ტ	T	Т	T	T	Ð	Ð	Ð	Ð	Ą	Ð	Ð	A	Ą	Ą	Ţ	H	v	O	D	U
BANSINE ATTENTO	4	Ą	, O	ပ	O	O	4	A	· V	Ą	Ð	U	Ü	ß	ß	9	Ö	O	T	T	4	T
BAYSNP	58886	58886	58926	58926	58926	58926	58968	58968	58968	58968	58985	59113	59113	59236	59236	59236	59237	59237	59267	59352	59352	59363

FREQ2.B	38	108	48	12	12	80	43	7	7	80	126	77	126	22	74	35	6	15	68	153	4	3
FREQUE	100	164	88	104	104	110	47	135	135	92	168	62	166	44	444	225	109	205	471	3 <u>7</u> 9	226	115
SIZE B	69	. 136	89	28	85	95	45	71	71	78	147	78	146	33	259	130	. 59	110	280	792	115	59
FREDOZ &	58	129	44	23	œ	13	7	10	\$	37	102	37	104	3	35	19	2	4	61	185	0	0
FRECT	74	153	09	87	. 26	25	7	52	29	73	204	73	198	31	469	241	28	42	511	353	238	128
A MAZIN	99	141	52	55	17	19	7	31	17	55	153	55	151	17	252	130	15	23	286	569	119	2
I	1,42	1,13	1,18	1,4	7	0,75	1,08	2,12	2,36	9,65	0,82	89'0	0,83	0,29	0,63	89'0	68'0	1,24	0,78	1,13	0	0
IM	7,0	68,0	0,85	69'0	6,5	1,32	0,93	0,47	0,42	1,55	1,23	1,48	1,2	3,44	1,6	1,47	1,12	0,81	1,28	0,88	Hall	ם
CONTANTSON AND THE STORE A TREOL A FREED A STORE B TREOL B TREOL B	HELD_FEM_ADR	HELD_FEM_VEFF	HELD_FRM_UEFF	HELD_MAL_ADR	HELD_MAL_ADR3ULN	HELD ALL ADRSULN	HELD_MAL_ADRSULN	HELD FEM ADR3ULN	HELD_FEM_ADRSULN	HELD FEM UEFF	HELD_FEM_VEFF	HBLD_FEM_UEFF	HELD_FEM_VEFF	HELD_MAL_LIP	HELD_FEM_EFF	HELD FEM VEFF	HBLD_FEM_ADRSULN	HELD_ALL_ADRSULN	HELD_FEM_EFF	HELD_FEM_EFF	HELD_ALL_ADR	HELD_FEM_ADR
ALLELES	U	T	T	T	T	ပ	C	၁	S	Ð	Ð	Ą	A	O	A	4	¥	4	O	ð	Ð	O
_	H.	Ö	O	O	Ö	E	T	Ф	D	Ţ	H	O	ð	F	Ö	O	O	Ð	T	T	4	K
MAYSNP ALLELEI	59368	59371	. 59371	59372	59372	59443	59443	080006	900080	900102	900102	900111	900111	.900117	900118	900118	900118	900118	900120	900121	900123	900123

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FREO2_B	218	27	9	10	5	10	25	10	24	70	41	17	35	47	10	26	18	138	168	13	5	18
4	288	89	74	240	73	232	109	34	84	168	91	47	37	77	20	36	58	384	380	49	22	234
STAR B	253	28	40	125	39	121	<i>L</i> 9	22	54	119	99	32	36	62	15	31	38	261	274	31	31	126
EEC2.A	244	23	0	0	2	0	12	10	19	14	80	21	5	6	4	12	17	110	20 2	48	1	46
FREGIA	254	111	56	.52	58	50	22	20	97.	74	48	17	19	37	∞	30	23.	430	364	06	85	0
SIZE W	249	29	28	26	30	25	17	30	28	4	28	19	12	23	9.	21	20	.270	283	69	43	23
RRZ	1,13	0,83	0	0	9,0	0	1,93	0,84	0,82	0,55	0,47	2,08	0,37	0,5	-	69'0	1,71	0,84	1,12	1,22	0,28	IIII
RRE	68'0	1,21	Ting Ting	IIII	1,55	Ilun	0,52	1,19	1,21	1,83	2,12	0,48	2,71	2,02	-	1,44	0,58	1,19	6,0	0,82	3,59	0
COMPARISON	HELD_FEM_EFF	HELD_FEM_ADR	CVD_FEM	HELD_ALL_ADRSULN	CVD_FBM	HELD_ALL_ADRSULN	HELD FEM ADRSULN	HELD_FEM_CC	HELD MAL ADR	HELD_ALL_ADR3ULN	HELD FEM ADR3ULN	HELD_MAL_LIP	HELD_FEM_LIP	HELD_FEM_ADR3ULN	CVD_FEM	CVD_ALL	CVD_FEM	HELD_FEM_EFF	HELD_FEM_EFF	CVD_MAL	HBLD_FEM_ADR	HELD_ALL_ADRSULN
ALL/FLE2	A	O	O	Ð	Ŧ	Ħ	O	Ü	U	Ü	O	Ŀ	F	H	T	T	U	O	g	O	Ą	Ą
	0	T	4	A	Q	Ð	4	¥	A	Ŀ	Ţ	O	၁	:	U	O	T	O	U	O	Ö	ŋ
BAYSNP ALLELE1	900124	900132	900144	900144	900145	.900145	900146	900146	900146	900147	900147	900196	900196	900196	900196	900196	900200	900204	900205	900205	900223	900225

m														
FREQ2	10	76		13	16	177	4	4	25	19	25	25	4	19
REGISE FREST	104	118	84	125	104	373	220	220	119	101	119	119	220	101
SEEF B	27	72	7.7	69	. 09	275	132	132	72	09	72	72	132	99
SIZE A PRESOL A PRESOC A SIZE B	30	1	. 11	12	0	185	52	3	34	34	10	3	26	18
PREOL A	0	33	23	50	18	367	. 0	93	0	0	136	59	246	0
SICE A	15	17	17	31	6	276	26	48	17	17	73	31	136	6
N.	Im	0,17	0,72	1,68	0	1,03	Hall	0,21	Time	Imi	0,54	0,32	0,7	Ilun
	0	5,9	1,39	9,0	IIII	760	0	4,65	0	0	1,87	3,09	1,42	0
COMPARISON	HELD_MAL_ADR3ULN	HELD_FEM_ADRSULN	HELD_FEM_ADRSULN	HELD_FEM_ADR3ULN	HELD_MAL_ADRSULN	HELD_FEM_EFF	HELD_ALL_ADRSULN	HELD_ALL_ADR3ULN	HELD_FEM_ADRSULN	HELD_MAL_ADR3ULN	HELD_FEM_ADR	HELD FEM ADR3ULN	HELD_ALL_ADR	HELD_MAL_ADRSULN
ENTATIV	A	υ	A	Ŧ	Ţ	Ð	S	Ö	O	O	U	O	O	ບ
APPERE	O	¥	T	ڻ	O	D	Ð	Đ	Ð	Ð	Ð	Ð	Ð	හ
BAYSNE	900225	900227	900233	900236	900236	900241	900242	900242	900242	900242	900242	900242	900242	900242

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Claims

1. An isolated polynucleotide encoded by a phenotype associated (PA) gene; the polynucleotide is selected from the group comprising

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SEQ ID 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292 with allelic variation as indicated in the sequences section contained in a functional surrounding like full length cDNA for PA gene polypeptide and with or without the PA gene promoter sequence.

- 25
- 2. An expression vector containing one or more of the polynucleotides of claim 1.
- 30 3. A host cell containing the expression vector of claim 2.

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- 4. A substantially purified PA gene polypeptide encoded by a polynucleotide of claim 1.
- 5. A method for producing a PA gene polypeptide, wherein the method comprises the following steps:
 - a) culturing the host cell of claim 3 under conditions suitable for the expression of the PA gene polypeptide; and
- 10 b) recovering the PA gene polypeptide from the host cell culture.
 - 6. A method for the detection of a polynucleotide of claim 1 or a PA gene polypeptide of claim 4 comprising the steps of:
- 15 contacting a biological sample with a reagent which specifically interacts with the polynucleotide or the PA gene polypeptide.
- A method of screening for agents which regulate the activity of a PA gene comprising the steps of:
 contacting a test compound with a PA gene polypeptide encoded by any polynucleotide of claim 1; and detecting PA gene activity of the polypeptide, wherein a test compound which increases the PA gene polypeptide activity is identified as a potential therapeutic agent for increasing the activity of the PA
- gene polypeptide and wherein a test compound which decreases the PA activity of the polypeptide is identified as a potential therapeutic agent for decreasing the activity of the PA gene polypeptide.
 - 8. A reagent that modulates the activity of a PA polypeptide or a polynucleotide wherein said reagent is identified by the method of the claim 7.

- A pharmaceutical composition, comprising:
 the expression vector of claim 2 or the reagent of claim 8 and a pharmaceutically acceptable carrier.
- 5 10. Use of the reagent according to claim 8 for the preparation of a medicament.
- A method for determining whether a human subject has, or is at risk of developing a cardiovascular disease, comprising determining the identity of nucleotide variations as indicated in the sequences section of SEQ ID 1-292 of the PA gene locus of the subject and where the SNP class of the SNP is "CVD" as can be seen from table 3; whereas a "risk" genotype has a risk ratio of greater than 1 as can be seen from table 6.
- 12. A method for determining a patient's individual response to statin therapy, including drug efficacy and adverse drug reactions, comprising determining the identity of nucleotide variations as indicated in the sequences section of SEQ ID 1-292 of the PA gene locus of the subject and where the SNP class of the SNP is "ADR", "EFF" or both as can be seen from table 3; whereas the probability for such response can be seen from table 6.

13. Use of the method according to claim 12 for the preparation of a medicament

14. A kit for assessing cardiovascular status or statin response, said kit comprising

tailored to suit a patient's individual response to statin therapy.

- a) sequence determination primers and
- b) sequence determination reagents,

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wherein said primers are selected from the group comprising primers that hybridize to polymorphic positions in human PA genes according to claim 1; and primers that hybridize immediately adjacent to polymorphic positions in human PA genes according to claim 1.

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- 15. A kit as defined in claims 12 detecting a combination of two or more, up to all, polymorphic sites selected from the groups of sequences as defined in claim 1.
- 16. A kit for assessing cardiovascular status or statin response, said kit comprising one or more antibodies specific for a polymorphic position defined in claim 1 within the human PA gene polypeptides and combinations of any of the foregoing.

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-1- JC20 Rec'd PCT/PTO 01 JUL 2005

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WO 2004/067774

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PCT/EP2004/000539

WO 2004/067774

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Homo Sapiens

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PCT/EP2004/000539 WO 2004/067774

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(19) World Intellectual Property Organization

International Bureau



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PCT/EP2004/000539

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English

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03002212.3 03002153.9

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- (71) Applicant (for all designated States except US): BAYER HEALTHCARE AG [DE/DE]; 51368 Leverkusen (DE).
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- (74) Agent: BAYER HEALTHCARE AG; Law and Patents, Patents an Licensing, 51368 Leverkusen (DE).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SINGLE NUCLEOTIDE POLYMORPHISMS AS PREDICTIVE DIAGNOSTICS FOR ADVERSE DRUG REAC-TIONS (ADR) AND DRUG EFFICACY

(57) Abstract: The invention provides diagnostic methods and kits including oligo and/or polynocleotides or derivatives, including as well antibodies determining whether a human subject is at risk of getting adverse drug reaction after statin therapy or whether the human subject is a high or low responder or a good a or bad metabolizer of statins. The invention provides further diagnostic methods and kits including antibodies determining whether a human subject is at risk for a cardiovascular disease. Still further the invention provides polymorphic sequences and other genes.



In atlonal Application No PCT/EP2004/000539

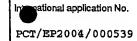
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According to	International Patent Classification (IPC) or to both national classifica	tion and IPC			
B. FIELDS	SEARCHED		1		
Minimum do IPC 7	Minimum documentation searched (classification system followed by classification symbols)				
Documentat	ion searched other than minimum documentation to the extent that si	uch documents are included in the fields se	arched		
Electronic d	ata base consulted during the international search (name of data bas	se and, where practical, search terms used)		
EPO-In	ternal, BIOSIS, EMBL, Sequence Searc	h, WPI Data, PAJ			
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with Indication, where appropriate, of the rele	evant passages	Relevant to daim No.		
Α	DATABASE EMBL 'Online! 4 June 1995 (1995-06-04), HABETS ET AL.: "Human T-lymphomia invasion and metastasis inducing TIAM1 protein (TIAM1) mRNA, complete cds." XP002279808 Database accession no. HS162961 cited in the application the whole document -/				
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			<u> </u>		
Y Further documents are listed in the continuation of box C.					
* Special ca	tegories of cited documents:	"T" later document published after the Into	emational filling date		
"A" document defining the general state of the art which is not or priority date and not in conflict with the application but					
"E" earlier document but published on or after the International "Y" document of particular relevance: the claimed Invention					
filing date cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone					
which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the					
*O" document referring to an oral disclosure, use, exhibition or document is combined with one or more other such documents, such combination being obvious to a person skilled					
P document published prior to the international filling date but in the art.					
later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the International search Date of mailing of the International search report					
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Name and n	Name and mailing address of the ISA Authorized officer				
	European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk				
	Tel. (+31~70) 340~2040, Tx. 31 651 epo nl, Far: (+31~70) 340~3016	Seroz, T			

Ir ational Application No
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claim No.
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In ational Application No
PCT/EP2004/000539

- (Ca-4)	DOCUMENTS CONCURRED TO BE TO THE	PCT/EP2004/000539		
Category °	citation of documents with indication where appropriate of the columns.	1-		
alegory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to dalm No.		
A	DORNBROOK-LAVENDER KIMBERLY A ET AL: "Genetic polymorphisms in emerging cardiovascular risk factors and response to statin therapy." CARDIOVASCULAR DRUGS AND THERAPY, vol. 17, no. 1, January 2003 (2003-01), pages 75-82, XP009030786 ISSN: 0920-3206 (ISSN print)			
·				
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Вох	No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)	
1.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nion, the international search was carried out on the basis of:	
	a.	type of material X a sequence listing table(s) related to the sequence listing	
	b.	format of material X in written format X in computer readable form	
	c.	time of filing/furnishing contained in the international application as filed X filed together with the international application in computer readable form furnished subsequently to this Authority for the purpose of search	•
2.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	
3.	Addiri	tional comments:	
-			

ternational application No. PCT/EP2004/000539

INTERNATIONAL SEARCH REPORT

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)				
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:				
Although claim 11 and 12 are directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.				
2. X Claims Nos.: 6, 8, 9 (partially), 10 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210				
3. Ctalms Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).				
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)				
This International Searching Authority found multiple inventions in this international application, as follows:				
see additional sheet				
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.				
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:				
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-16 (all partially)				
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.				

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Although claim 11 and 12 are directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box II.2

Claims Nos.: 6, 8, 9 (partially), 10

Present claims 6, 8-10 relate to a product (reagent) defined by reference to a desirable characteristic or property, namely its ability to bind to a polypeptide according to the present application and modulate the activity of said polypeptide.

The claims cover all reagents having this characteristic or property, whereas the application does not provide any support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for such reagents. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the reagents by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, no search has been carried out for claims 6, 8 and 10, and claim 9 has been searched with respect to the expression vector of claim 2.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

Information on patent family members

transitional Application No PCT/EP2004/000539

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1136554	A	26-09-2001	EP AU WO	1136554 A1 4419601 A 0170810 A2	26-09-2001 03-10-2001 27-09-2001

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